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Field Investigations

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URBAN RUNOFF CHARACTERISTICS

Volume II - Field Investigations

by

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16. ABSTRACT

This is a report on analytical studies and field investigations for the characterization of urban runoff and combined sewer overflows. The report is divided into two volumes as follows:

Volume I - Analytical Studies
Volume II - Field Investigations

Volume I deals mainly with the analysis and development of stormwater management models. Initially, the results of studies are given on the development of storm hyetographs and the determination of infiltration capacity curves for use in hydrologic runoff models. In the next sections, an hydrologic model known as "the University of Cincinnati Urban Runoff Model" is developed and a general description is given of the EPA Storm Water Management Model. Results are then provided on the testing of these computer models using field data included in Volume II.

Volume II is a compilation of hydrologic and water quality data collected over a three year period from a typical combined sewer watershed of 2380 acres area in Cincinnati, Ohio.

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FOREWORD

The Environmental Protection Agency was created because of increasing public and government concern about the dangers of pollution to the health and welfare of the American people. Noxious air, foul water, and spoiled land are tragic testimony to the deterioration of our natural environment. The complexity of that environment and the interplay between its components require a concentrated and integrated attack on the problem.

Research and development is that necessary first step in problem solution and it involves defining the problem, measuring its impact, and searching for solutions. The Municipal Environmental Research Laboratory develops new and improved technology and systems for the prevention, treatment, and management of wastewater and solid and hazardous waste pollutant discharges from municipal and community sources, for the preservation and treatment of public drinking water supplies, and to minimize the adverse economic, social, health, and aesthetic effects of pollution. This publication is one of the products of that research; a most vital communications link between the researcher and the user community.

This report focuses on the characterization of liquid contaminants which overflow from combined sewer systems. It involves a typical combined sewer watershed in Cincinnati, Ohio.

Francis T. Mayo
Director
Municipal Environmental Research Laboratory

ABSTRACT

This is a report on investigations for the improvement of stormwater characterization and management. Detailed data have been collected on urban runoff characteristics and these data have been used in the development and testing of mathematical models for stormwater management.

Data on runoff quantity and quality have been compiled from a three-year study of a combined sewer watershed of approximately 2380 acres, known as the Bloody Run Sewer system in Cincinnati, Ohio. Information on the watershed characteristics and data are included in this report.

The information collected was used to test and refine the comprehensive Storm Water Management Model (EPA-SWMM) developed for the Office of Research and Development of the Environmental Protection Agency and published in their Water Control Series under reports numbered 11024 DOC-07/71, -08/71, -09/71, and -10/71.

Testing was also carried out on the evaluation of a stormwater runoff model known as the University of Cincinnati Urban Runoff (UCUR) Model. Results of comparisons with other models, including the EPA-SWMM, are given in this report.

Ancillary studies utilizing data from the Bloody Run Sewer System have also been carried out as a part of the overall project. The results of these studies provide additional insights with regard to the control and management of urban runoff.

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SECTION 1

INTRODUCTION

The general description of the Bloody Run Sewer Watershed as well as the description and layout of the Bloody Run Sewer System are presented in this volume together with a detailed description of the monitoring system employed for the data collection.

This volume contains all the data collected at the five monitoring stations and the three raingages covering the Bloody Run Sewer Watershed during the period of October 29, 1970 to September 15, 1972.

Additional studies done in conjunction with the project can be found in Volume I. The second volume is intended only to present the data collected. For an understanding of the entire scope of this project reference must be made to Volume I.

SECTION 2

SUMMARY OF BLOODY RUN SEWER WATERSHED DATA

In this section several summary plots are presented for the reader's convenience. Data included herein has been collected from October 29, 1970 to September 15, 1971 from the Bloody Run Sewer Watershed monitoring stations and raingages. Detailed data are presented in Section 6 of this volume.

Figures 2-1 and 2-2 show average rainfall accumulations over the entire drainage area for each rainstorm during the period of data collection. This data was obtained from the three operating raingages and then averaged by using the Thiessen Method.

Figures 2-3 and 2-4 give the average discharge rate and Figures 2-5 and 2-6 give the maximum discharge rate in cubic feet per second for each of the rainstorms at the "Outlet" monitoring station. Relative variations of runoff quality from monitoring station to monitoring station for various storms can be found in Figures 2-7, 2-8, and 2-9.

An accumulation of cubic feet of water during rainstorms at the outlet is presented in Figure 2-10. Approximately 162 million cubic feet of water spilled over into Mill Creek, the receiving stream of the Bloody Run Drainage Area, during rainstorms from October 29, 1970 to September 12, 1971 while only 42 million cubic feet went to the Mill Creek Treatment Plant. From the dry weather flow data collected by the Department of Sewers of the City of Cincinnati an approximate dry weather flow rate was obtained equal to 7.5 cfs. Therefore, over the period in question, the Mill Creek Treatment Plant received approximately 207 million cubic feet of waste water during dry periods. It can be seen that 249 million cubic feet have entered the Mill Creek Treatment Plant during the period of October 29, 1970 to September 12, 1971 while 162 million cubic feet or about 40% of the total flow by-passed the Plant and went into Mill Creek.

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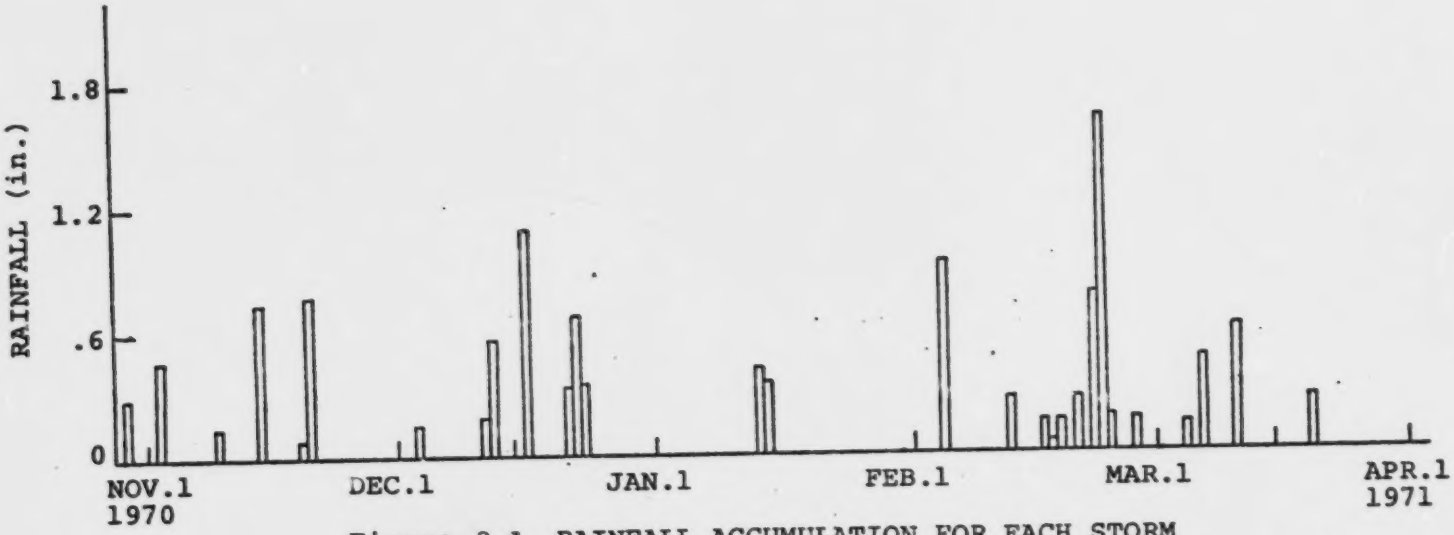


Figure 2-1. RAINFALL ACCUMULATION FOR EACH STORM DURING COLLECTION PERIOD

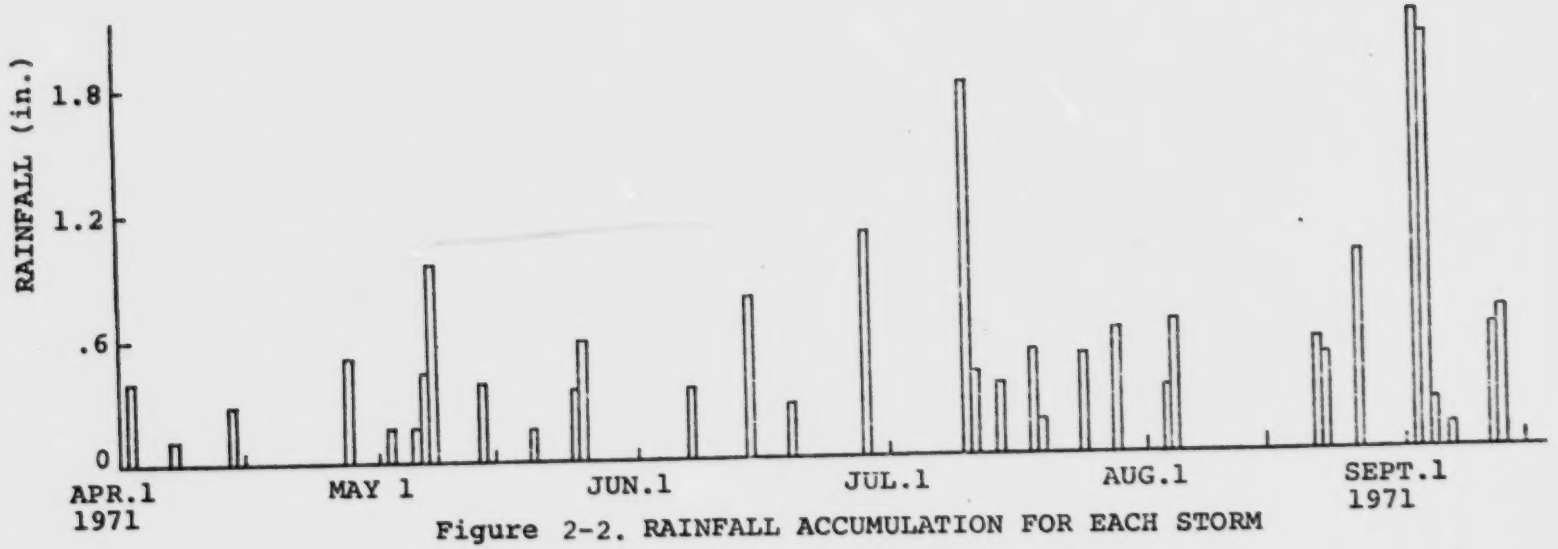


Figure 2-2. RAINFALL ACCUMULATION FOR EACH STORM DURING COLLECTION PERIOD

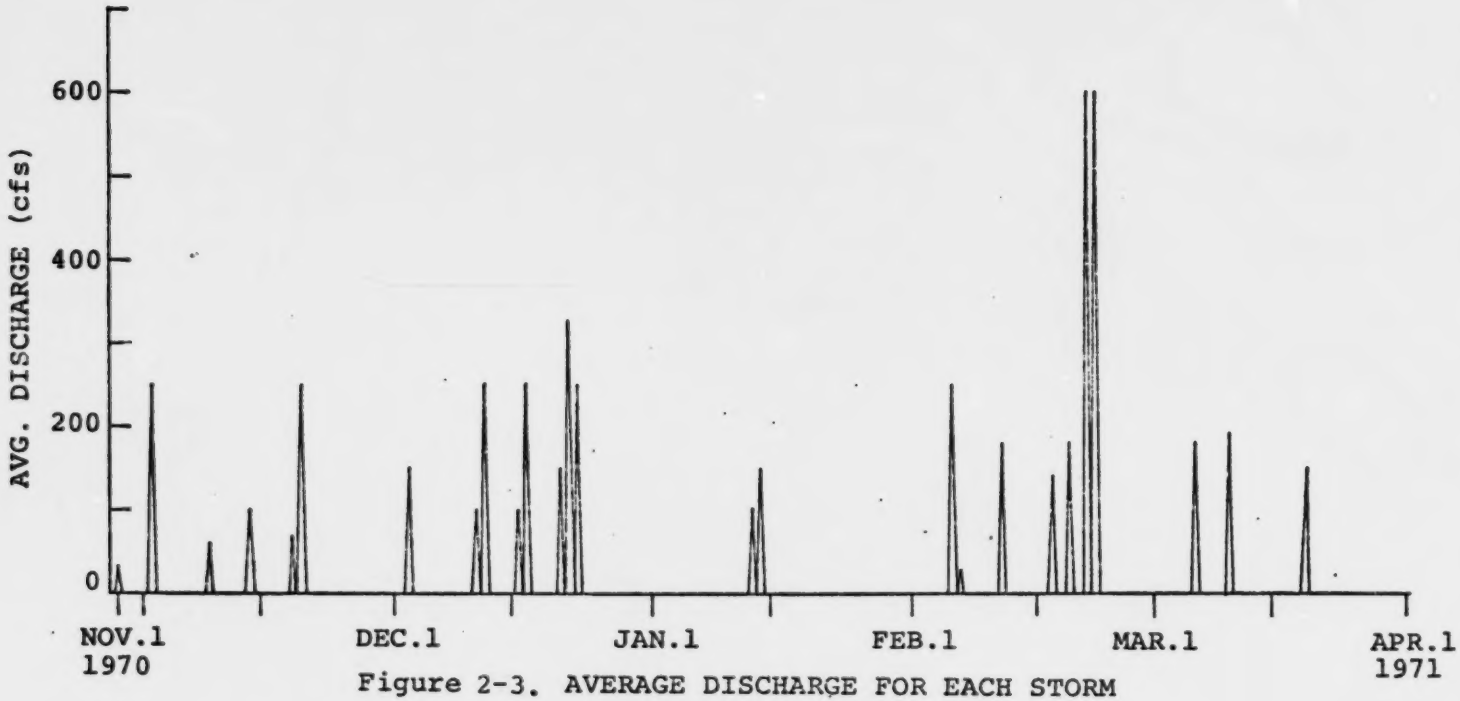


Figure 2-3. AVERAGE DISCHARGE FOR EACH STORM DURING THE COLLECTION PERIOD

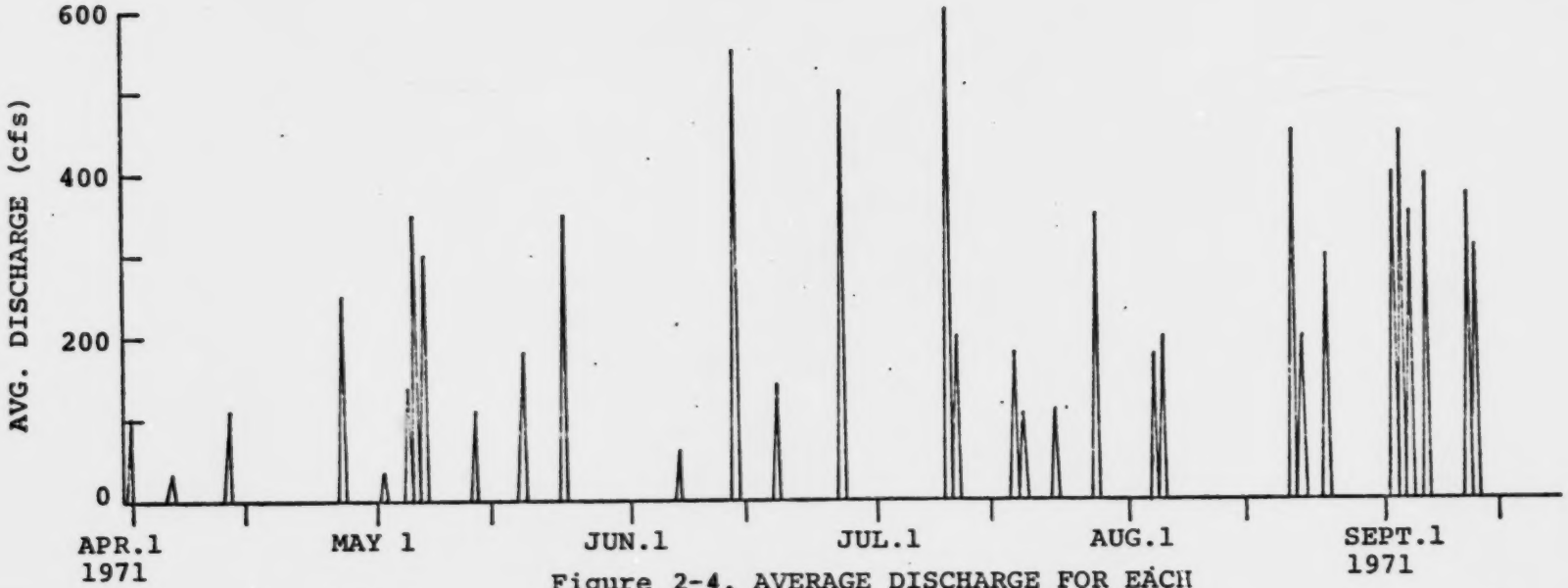


Figure 2-4. AVERAGE DISCHARGE FOR EACH STORM DURING THE COLLECTION PERIOD

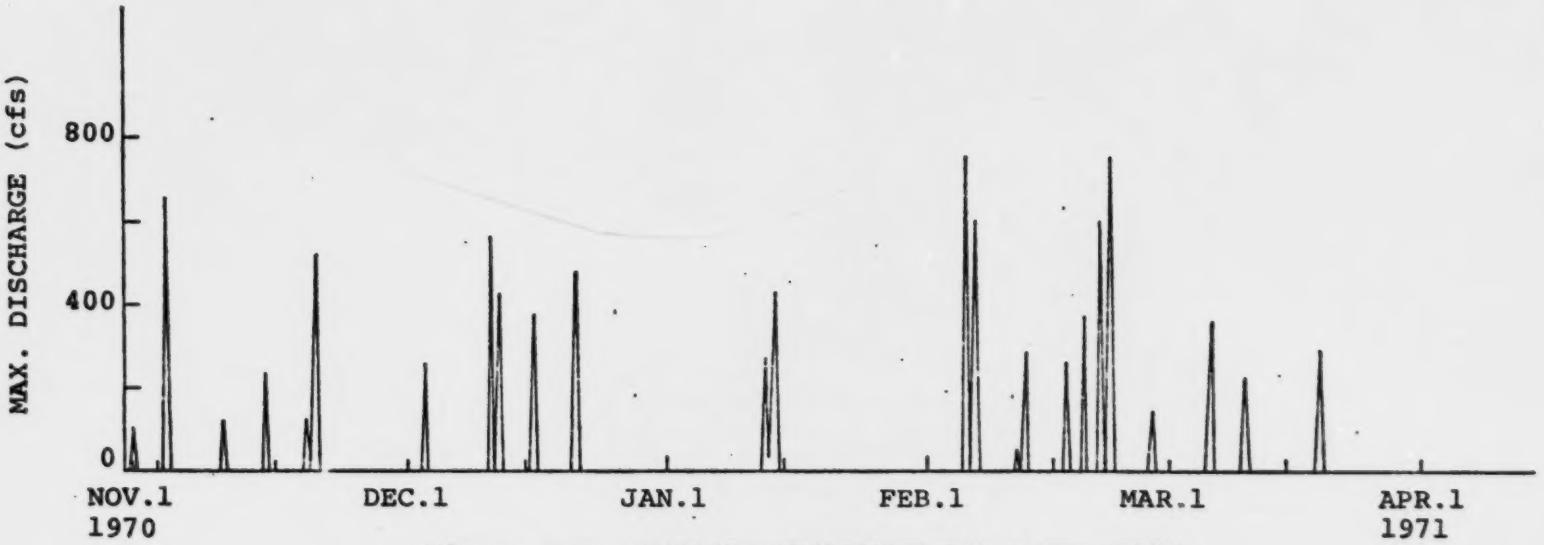


Figure 2-5. MAXIMUM DISCHARGE FOR EACH STORM DURING COLLECTION PERIOD

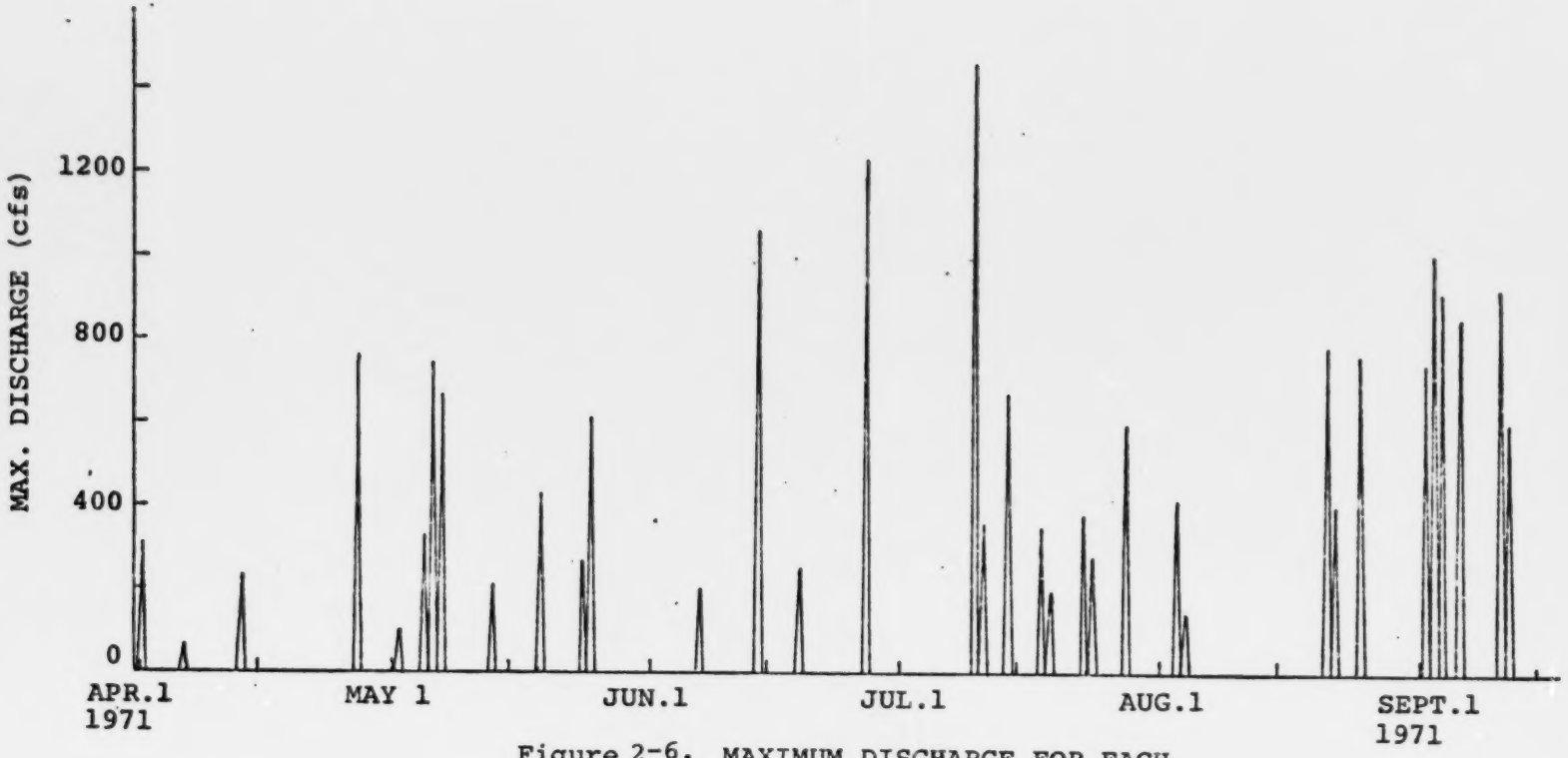


Figure 2-6. MAXIMUM DISCHARGE FOR EACH STORM DURING COLLECTION PERIOD

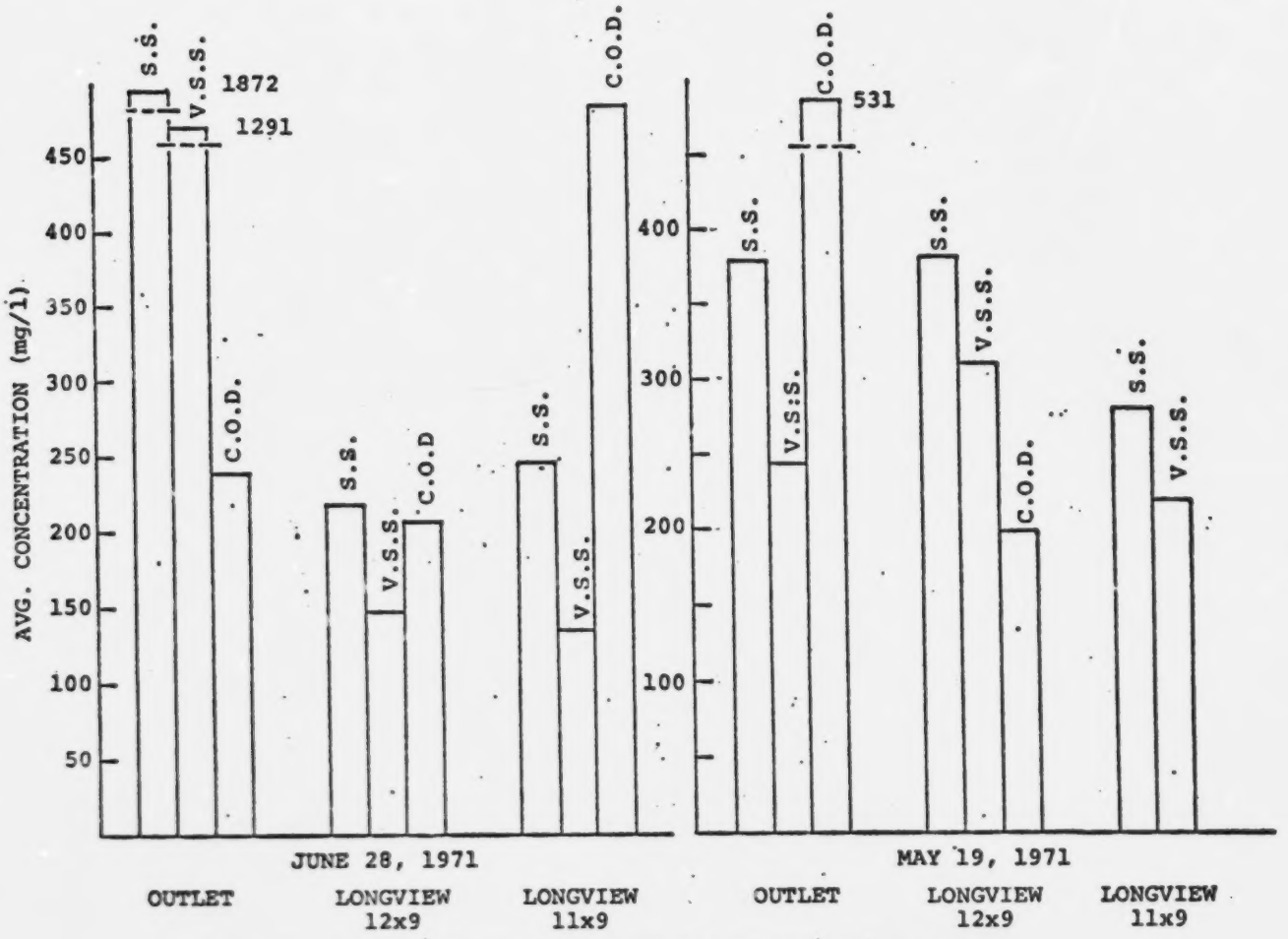


Figure 2-7. RELATIVE COMPARISON OF QUALITY DATA BETWEEN MONITORING STATIONS FOR RAINFALLS ON MAY 19, 1971 AND JUNE 28, 1971

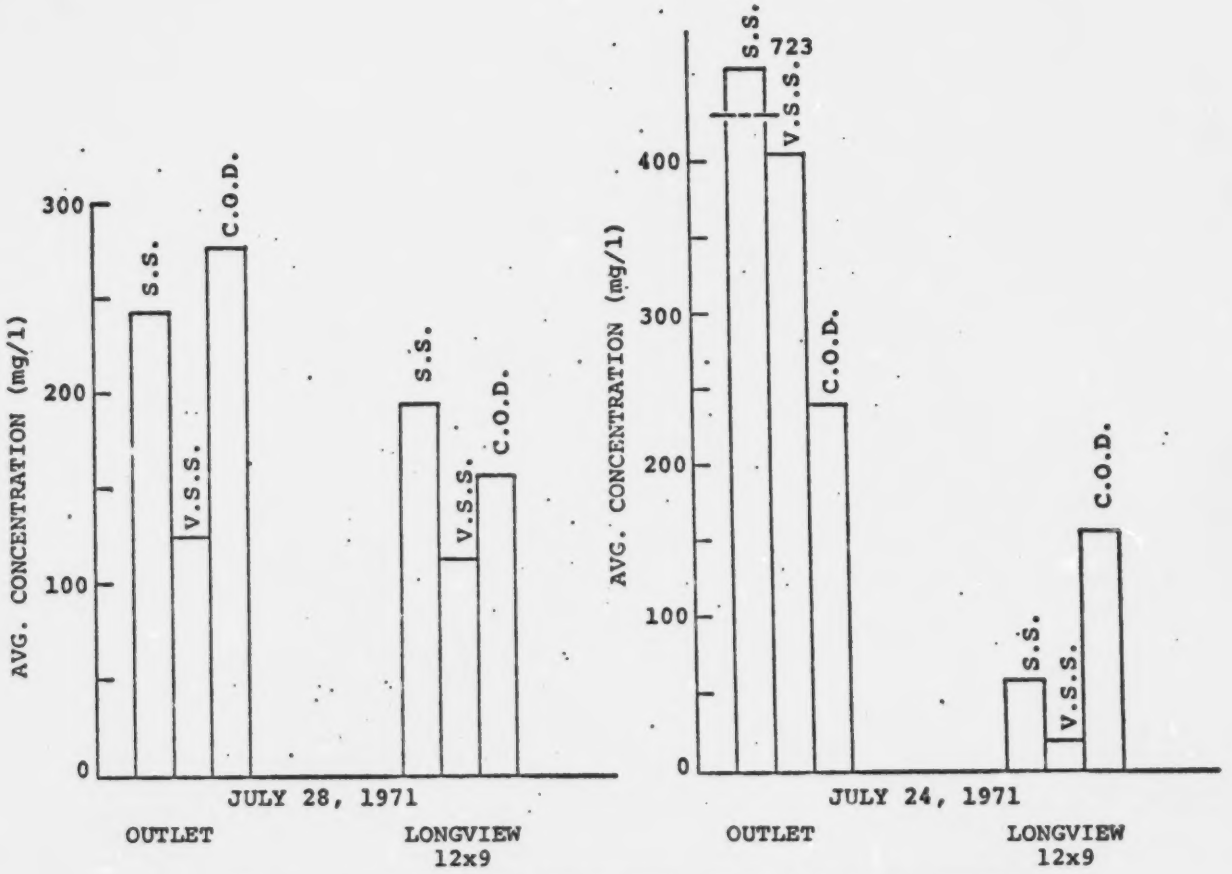


Figure 2-8. RELATIVE COMPARISON OF QUALITY DATA BETWEEN MONITORING STATIONS ON JULY 24, 1971 AND JULY 28, 1971

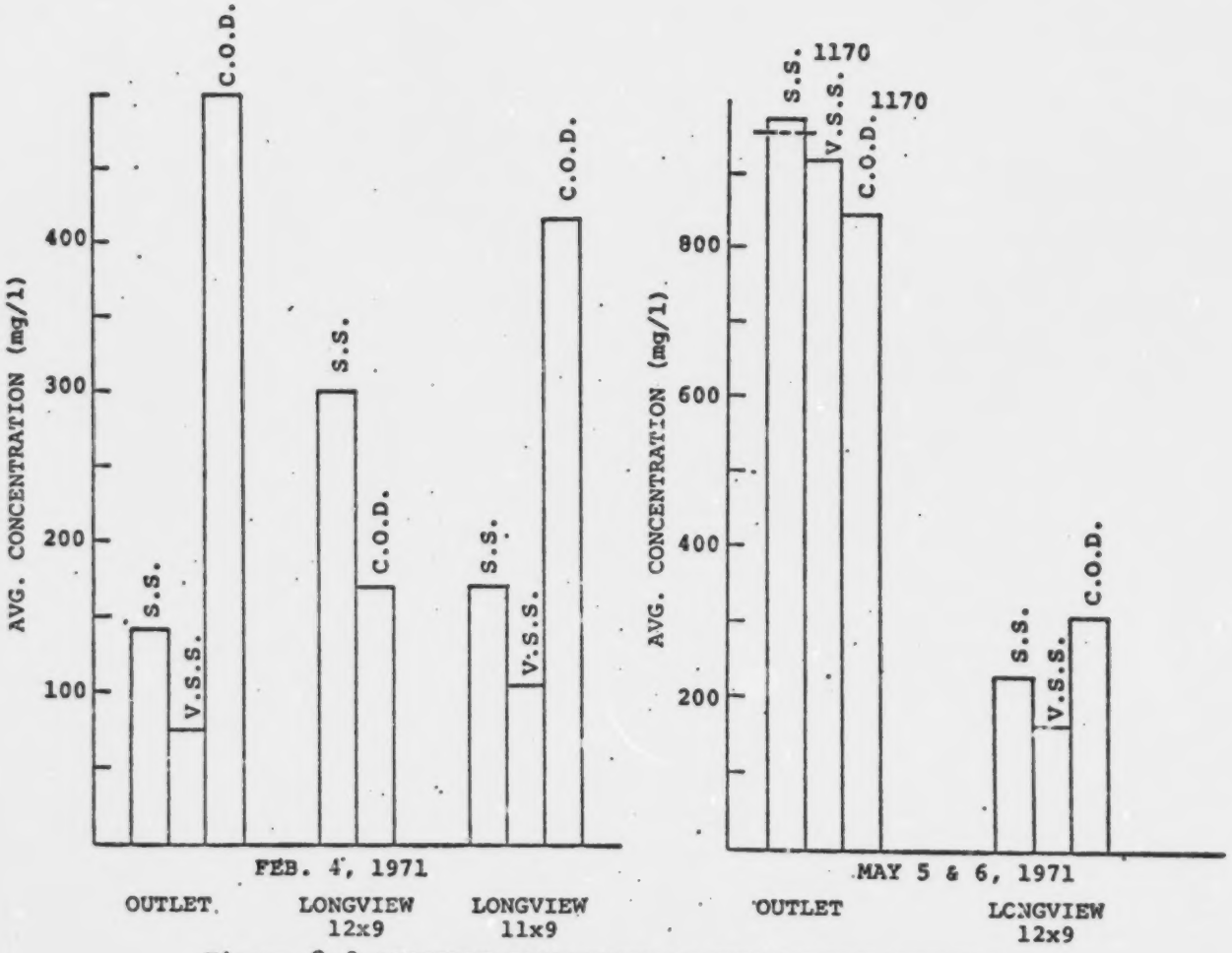


Figure 2-9. RELATIVE COMPARISON OF QUALITY DATA BETWEEN MONITORING STATIONS FOR RAINFALLS ON FEB. 4, 1971 AND MAY 5 & 6, 1971

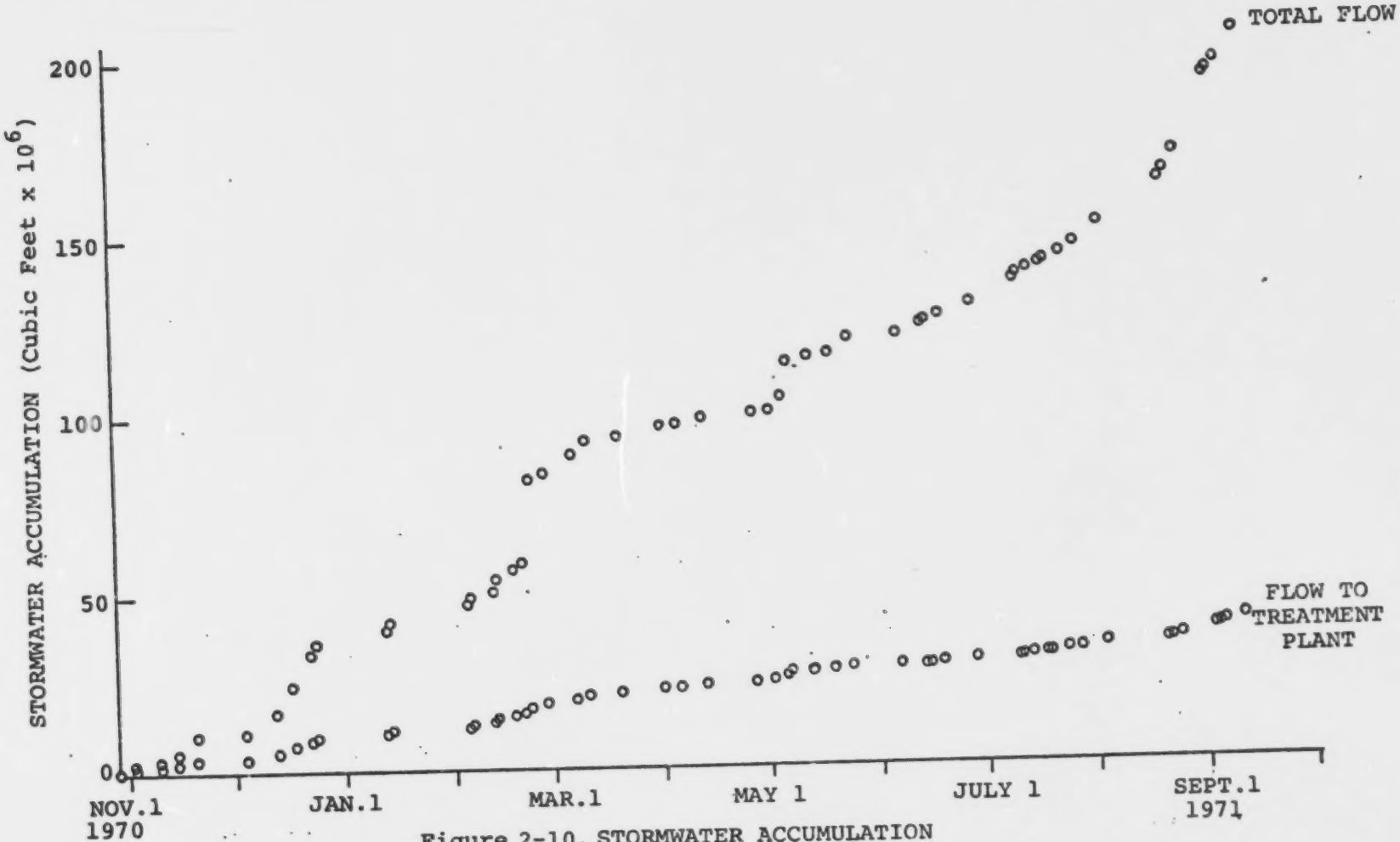


Figure 2-10. STORMWATER ACCUMULATION DURING COLLECTION PERIOD AT BLOODY RUN OUTLET.

SECTION 3

DESCRIPTION OF THE BLOODY RUN SEWER WATERSHED

A combined sewer watershed of diversified usage in the City of Cincinnati was selected for the purpose of collecting data to develop and verify storm water management models for urban areas. The watershed is referred to as the Bloody Run Sewer System. It was so named because of an Indian massacre which took place in that area during an early historical period. Its location is in the northeast section of the City of Cincinnati as shown in Figures 3-1 and 3-2.

The area is comprised of 2,380 acres of rolling terrain. Topographically, the area is characterized by two main valleys running approximately east and west. Most of the commercial and industrial sections are located in these valleys; the residential housing is found on the ridges (Figure 3-3).

About 55% of the area is residential, 17% commercial, 5% industrial, and 22% open land and parks. A more detailed division of the Bloody Run Sewer Watershed into different land uses is presented in Figure 3-4 and Table 3-1.

The Bloody Run Sewer Watershed was divided into 37 subareas by using sewer, topographical, and zoning maps, with the concept that each area should include one major type of land use and should incorporate an individual inlet manhole. The resulting division is shown in Figure 3-5. The subareas have been numbered in such a way to follow the sewer network and facilitate the data tabulation for computer programming.

The physical characteristics of the subareas, such as the number of acres, length, average width which is used to calculate the distance that the overland runoff must travel before entering the inlet manhole, maximum and minimum elevation, average slope, and perviousness, are given in Tables 3-2 and 3-3.

The total population according to the 1960 census is approximately 26,000 with an average of about 11 persons per acre. Figure 3-6 presents the 1960 census tracts covering the Bloody Run Sewer Watershed and Table 3-4 summarizes the data collected for these tracts. In Table 3-5, the same data have been extracted for each one of the 37 subareas which constitute the Bloody Run Sewer Watershed.

In order to calculate the overland flow from the street surfaces feeding the roadside gutters, the screed diagram of the streets according to their width is needed as given in Figures 3-7 and 3-8. For the estimation of the gutter flows, the details of rolling and battered curbs are given in Figure 3-9 together with two common sidewalk cross-sections.

Information on street cleaning operations, i.e. number of miles of streets swept and number of cubic yards of litter and debris removed, have been obtained from the City of Cincinnati Department of Public Works. These data are provided in Table 3-6 for each one of five areas which cover the Bloody Run Sewer Watershed as shown in Figure 3-10 and contains helpful information to be used in the runoff quality modeling.

Figure 3-1. GENERAL LOCATION OF THE BLOODY RUN SEWER DRAINAGE AREA IN CINCINNATI

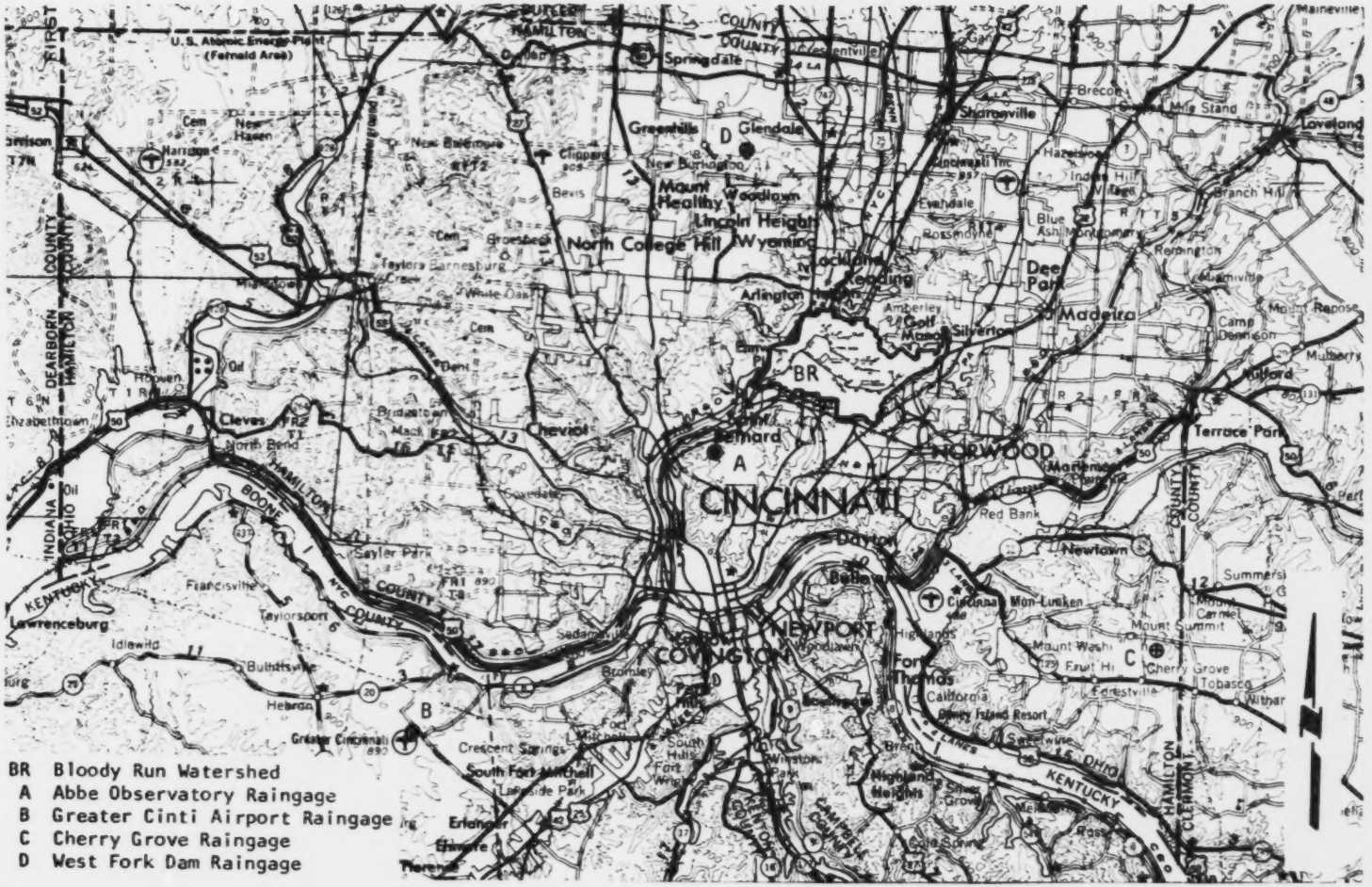


Figure 3-2. TOPOGRAPHIC MAP OF HAMILTON COUNTY (SCALE 1:250,000)

Reproduced from
best available copy.

Figure 3-3. AERIAL PHOTOGRAPH OF THE BLOODY RUN SEWER WATERSHED

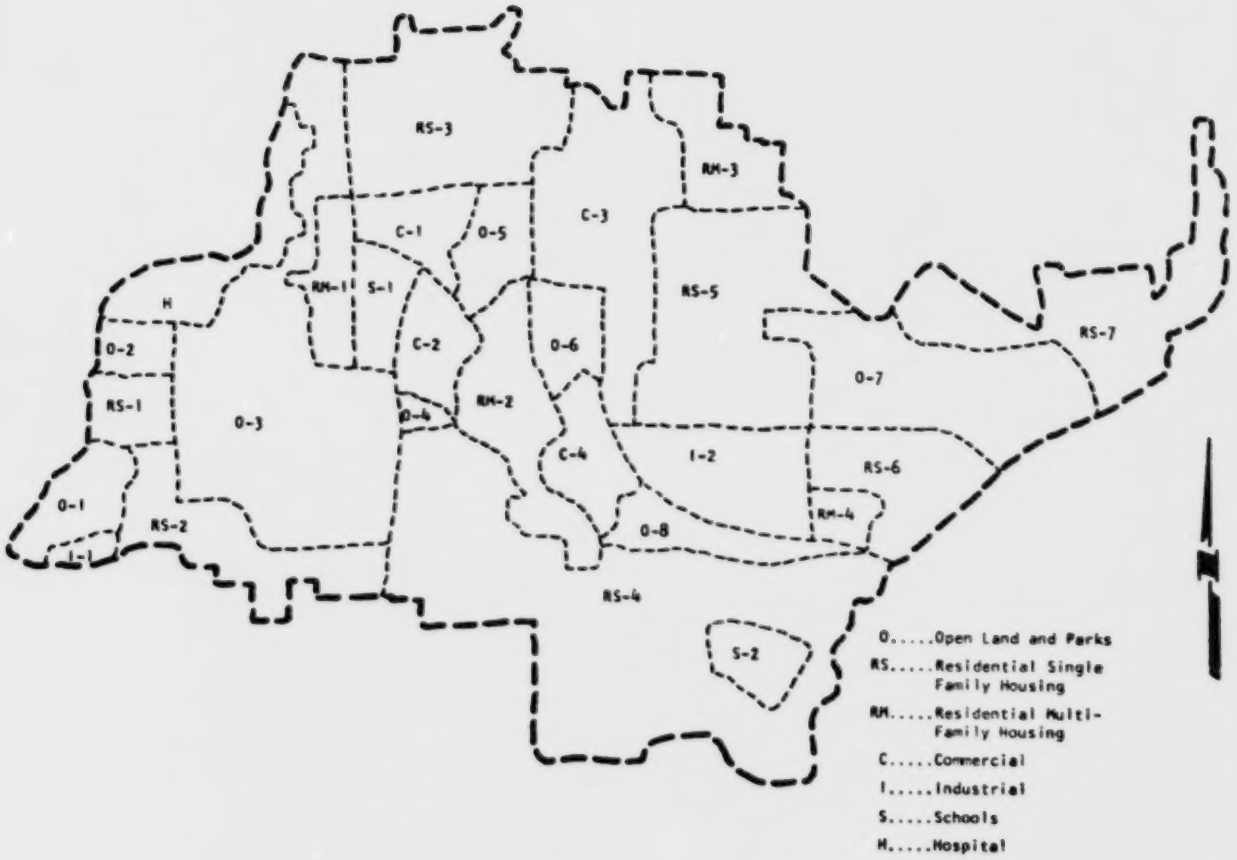


Figure 3-4. DIVISION OF BLOODY RUN SEWER WATERSHED INTO DIFFERENT LAND USES

Table 3-1. DIVISION OF BLOODY RUN SEWER WATERSHED INTO DIFFERENT LAND USES

Char.*	Area (acres)	Land Use
O-1	38.5	Open Land and Parks
O-2	18.8	
O-3	275.0	
O-4	9.2	
O-5	34.5	
O-6	34.5	
O-7	138.0	
O-8	32.2	
RS-1	27.6	Residential Single Family Housing
RS-2	113.0	
RS-3	160.0	
RS-4	396.0	
RS-5	216.0	
RS-6	78.0	
RS-7	137.5	
RM-1	27.6	Residential Multi-Family Housing
RM-2	85.5	
RM-3	57.5	
RM-4	11.5	
C-1	39.2	Commercial
C-2	38.0	
C-3	160.0	
C-4	46.0	
I-1	9.2	Industrial
I-2	79.5	
S-1	34.5	Schools
S-2	40.0	
H	39.0	Hospital

* referring to Figure 3-4.

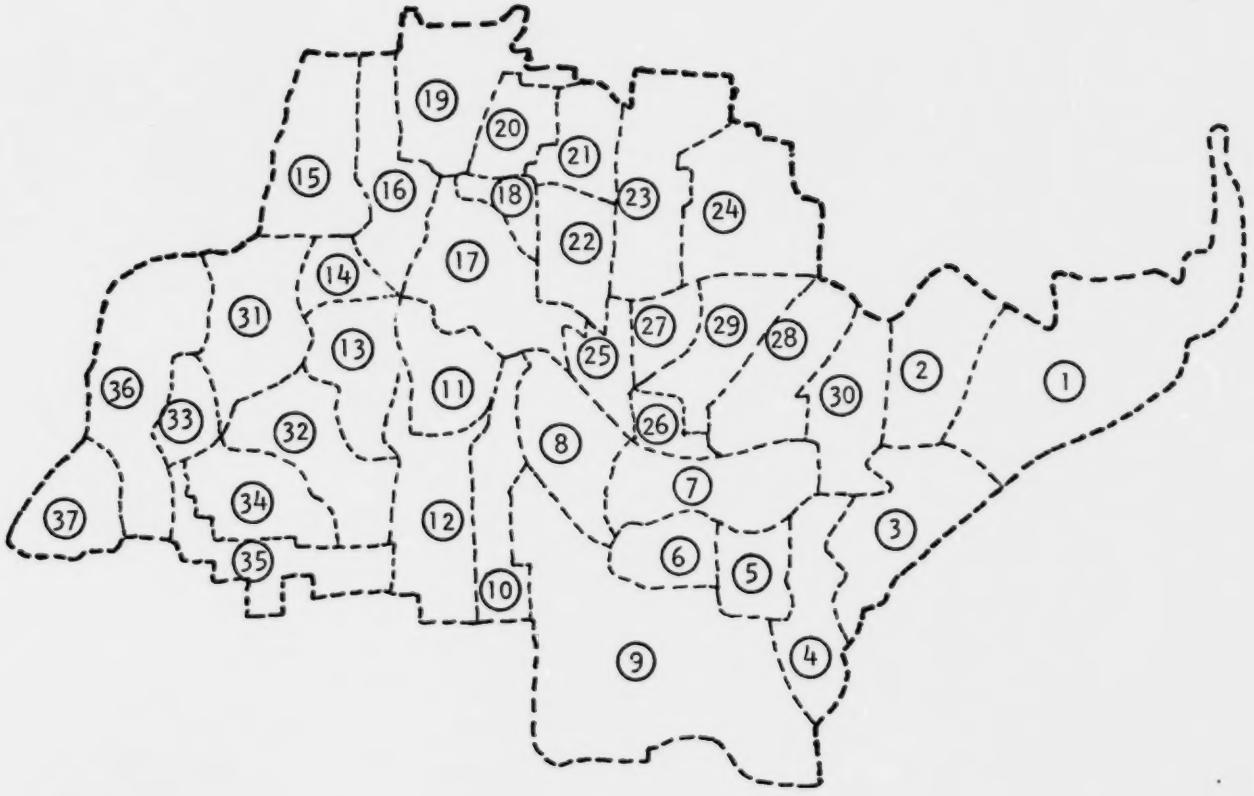


Figure 3-5. DIVISION OF BLOODY RUN SEWER BASIN INTO SUBAREAS

Table 3-2. PHYSICAL CHARACTERISTICS OF THE BLOODY RUN WATERSHED.

Subcatchment Number*	Length in Feet (L)	Average Width in Feet (A/L)	Area in Acres (A)	Perviousness
1	5010.0	1528.1	176.0	66.3
2	2625.0	1136.8	68.6	71.3
3	2526.5	1260.3	73.2	46.5
4	625.1	4105.7	59.0	65.3
5	1062.5	1555.8	38.0	63.2
6	1500.0	968.6	33.4	61.1
7	3062.5	980.1	69.0	26.7
8	1375.0	1698.9	53.7	43.2
9	4562.5	2385.5	250.2	48.1
10	750.0	2621.6	45.2	41.5
11	1125.0	1484.8	38.4	18.6
12	1375.0	2587.8	81.8	45.5
13	1375.0	1575.5	49.8	89.2
14	2312.5	380.0	20.2	65.3
15	2687.5	1165.4	72.0	79.3
16	1437.5	3510.3	116.0	54.4
17	2500.0	1586.9	91.2	35.5
18	1125.0	692.1	17.9	75.5
19	1250.0	2049.7	58.9	60.2
20	1125.0	1643.3	42.5	60.3
21	875.0	1794.7	36.1	57.7
22	1125.0	1542.8	39.9	53.6
23	1062.5	3566.0	87.1	39.2
24	1562.5	2458.3	88.3	61.3
25	1562.5	838.0	30.1	55.4
26	1000.0	1300.6	29.9	28.3
27	750.0	1270.2	21.9	43.6
28	1125.0	2331.6	60.3	51.3
29	1000.0	2088.0	48.0	60.1
30	1125.0	1956.5	50.6	70.3
31	2312.5	1241.5	66.0	95.0
32	2600.0	903.5	54.0	95.1
33	1300.0	836.5	25.0	83.2
34	2625.0	830.2	50.1	89.1
35	3250.0	836.5	62.5	60.5
36	710.0	7474.6	122.0	50.3
37	875.0	2436.0	49.0	66.2

*referring to Figure 3-5

Table 3-3 COMPUTED AVERAGE SLOPE OF SUBCATCHMENTS OF BLOODY RUN SEWER WATERSHED.

Subcatchment Number*	Maximum Elevation	Minimum Elevation	Distance (feet)	Slope (%)
1	845	690	5000	3.1
2**	750	675	2400	3.1
	785	750	450	7.8
3**	700	645	1800	3.1
	730	675	700	7.8
4**	680	650	1300	2.3
	715	650	850	7.6
5	720	605	1050	11.0
6	685	625	600	10.0
7**	650	600	2300	2.2
	675	650	500	5.0
	675	650	400	6.3
8**	620	575	400	11.3
	620	575	600	7.5
9**	800	625	4000	4.4
	715	625	2600	3.5
10	625	560	2400	2.7
11	585	555	700	4.3
12	610	555	1700	3.2
13	595	550	900	5.0
14	580	545	1000	3.5
15**	600	560	1300	3.1
	590	560	700	4.3
16	595	540	1200	4.6
17	600	550	2100	2.4
18	590	550	1000	4.0
19	595	575	900	2.2
20	590	575	1000	1.5
21	575	555	600	3.3
22	600	575	1000	2.5
23	620	590	1400	2.1
24	725	605	1900	6.3
25	625	575	600	8.3
26	635	600	550	6.4
27	670	605	1100	5.9
28	725	640	2000	4.3
29	660	610	1400	3.6
30**	735	660	1400	5.4
	730	660	900	7.8
31**	590	540	1200	4.2
	580	540	700	5.7
32	600	535	2600	2.5
33	575	540	1300	2.7
34	575	535	1700	2.3
35	610	600	800	1.2
36**	585	530	750	7.3
	575	540	600	5.8
37	575	525	700	7.1

*referring to Figure 3-5.

**Subareas comprised of two or more smaller areas, each sloping in different directions.

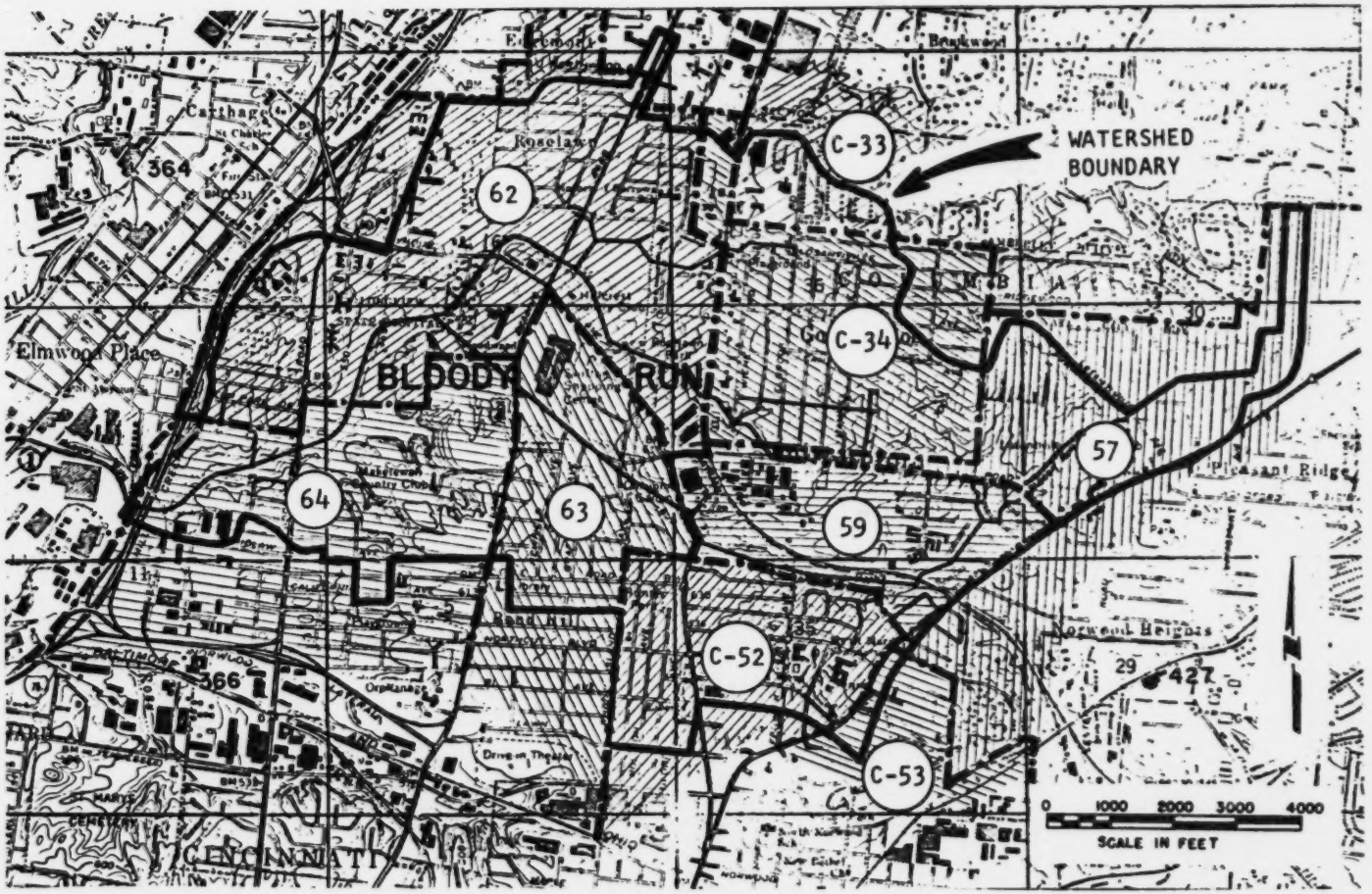


Figure 3-6. CENSUS TRACTS 1960 COVERING BLOODY RUN SEWER WATERSHED

TABLE 3-4-CENSUS DATA, YEAR 1960, FOR BLOODY RUN SEWER WATERSHED

(Tract Boundaries on Tract Division Map)

Census Tract*	Total No. Persons per Acre	Total No. Dwelling Units	No. People Living in Avg. Dwelling Unit	Median Family Income in $1,000	No. Owner Occupied Houses	Avg. Market Value Owner Occupied Houses in $1,000
C34	11.2585	1537	3.0241	7.53	467	17.30
C33	1.4589	1038	3.3824	14.726	1024	35.00
57	10.1005	3249	2.7452	7.659	1738	17.40
59	8.3034	617	2.7780	7.640	308	19.00
C52**	19.3363	--	--	--	--	--
63	17.0912	2794	2.6306	7.388	1031	17.30
64	5.3840	1499	2.8833	7.243	683	17.00
62	10.4767	2002	4.5310	8.607	795	22.70

*Referring to Figure 3-6.

**No detailed census data available from the City of Norwood.

Table 3-5. CENSUS DATA, YEAR 1960, FOR BLOODY RUN SEWER WATERSHED
(Sub-area Boundaries on Sub-Area Division Map)

Sub-Area* #	Total # Persons per Acre	Total # Dwelling Units	# People Living In Avg. Dwelling Unit	Median Family Income ($1000)	Avg. Market Value Owner Occupied Units ($1000)
1	9.29	608	2.83	8.34	21.31
2	9.72	230	2.65	7.62	17.42
3	8.72	215	2.79	7.64	19.00
4	13.46	178	2.78	7.64	19.00
5	15.19	111	2.78	7.64	19.00
6	13.97	98	2.78	7.64	19.00
7	8.30	203	2.78	7.64	19.00
8	14.68	302	2.89	7.60	18.20
9	18.19	1620	2.63	7.38	17.30
10	17.09	307	2.63	7.38	17.30
11	16.74	223	2.75	7.47	17.38
12	12.57	395	2.71	7.29	17.08
13	8.39	105	3.91	8.34	20.91
14	10.48	40	4.53	8.61	22.70
15	10.48	140	4.53	8.61	22.70
16	10.48	100	4.53	8.61	22.70
17	12.54	335	3.90	8.16	20.85
18	10.48	40	4.53	8.61	22.70
19	10.48	140	4.53	8.61	22.70
20	5.86	130	4.53	8.61	22.70
21	10.48	50	4.14	12.72	31.30
22	6.67	110	4.53	8.61	22.70
23	6.73	192	3.26	11.21	26.32
24	10.98	321	3.12	8.33	19.23
25	11.01	91	3.89	8.23	20.49
26	9.22	58	2.79	7.39	17.81
27	11.26	81	3.02	7.53	17.30
28	11.62	231	3.15	7.55	17.43
29	11.26	179	3.02	7.53	17.30
30	13.09	57	3.70	7.58	18.54
31	10.48	124	4.53	8.61	22.70
32	5.38	100	2.88	7.24	17.00
33	7.93	47	3.37	7.21	18.07
34	5.38	93	2.88	7.24	17.00
35	5.38	116	2.88	7.24	17.00
36	8.38	266	3.99	8.24	20.95
37	10.48	113	4.53	8.61	22.70

*referring to Figure 3-5.

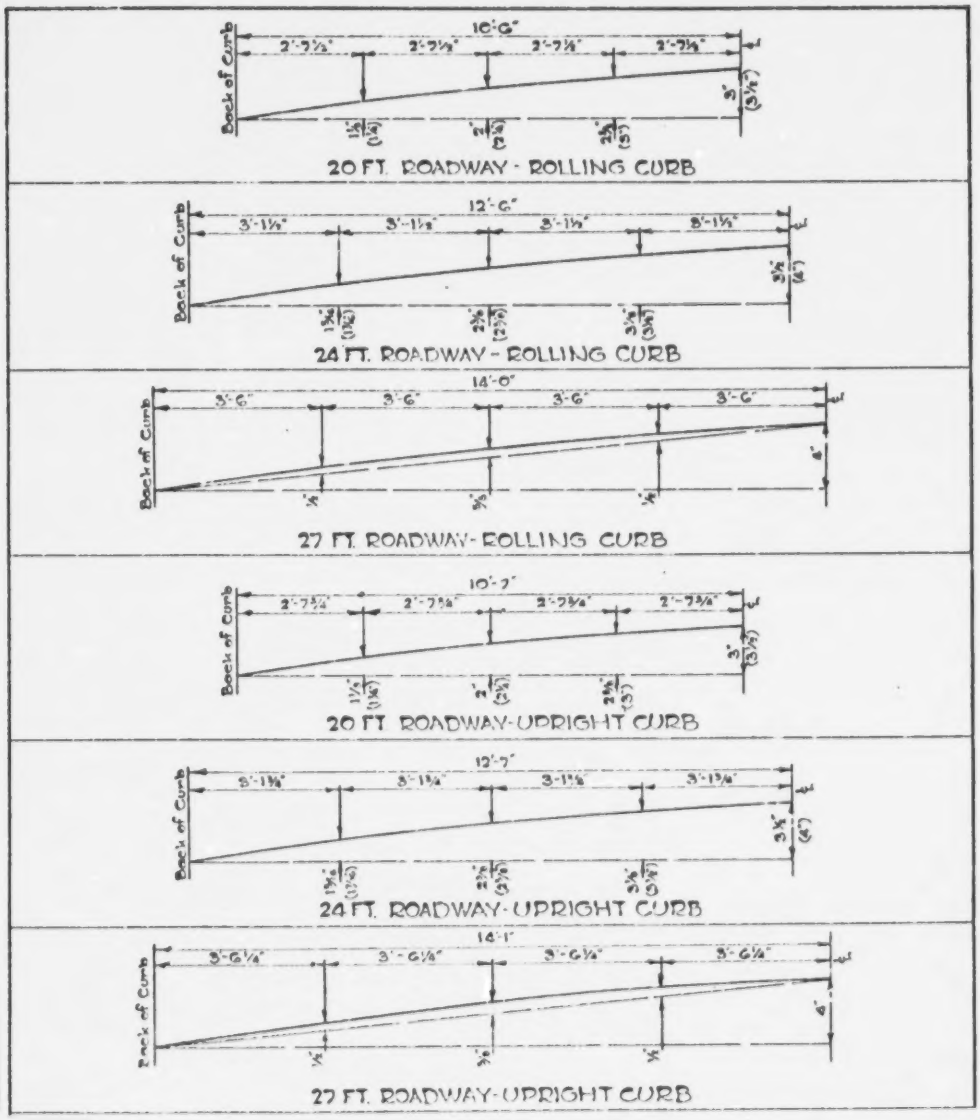
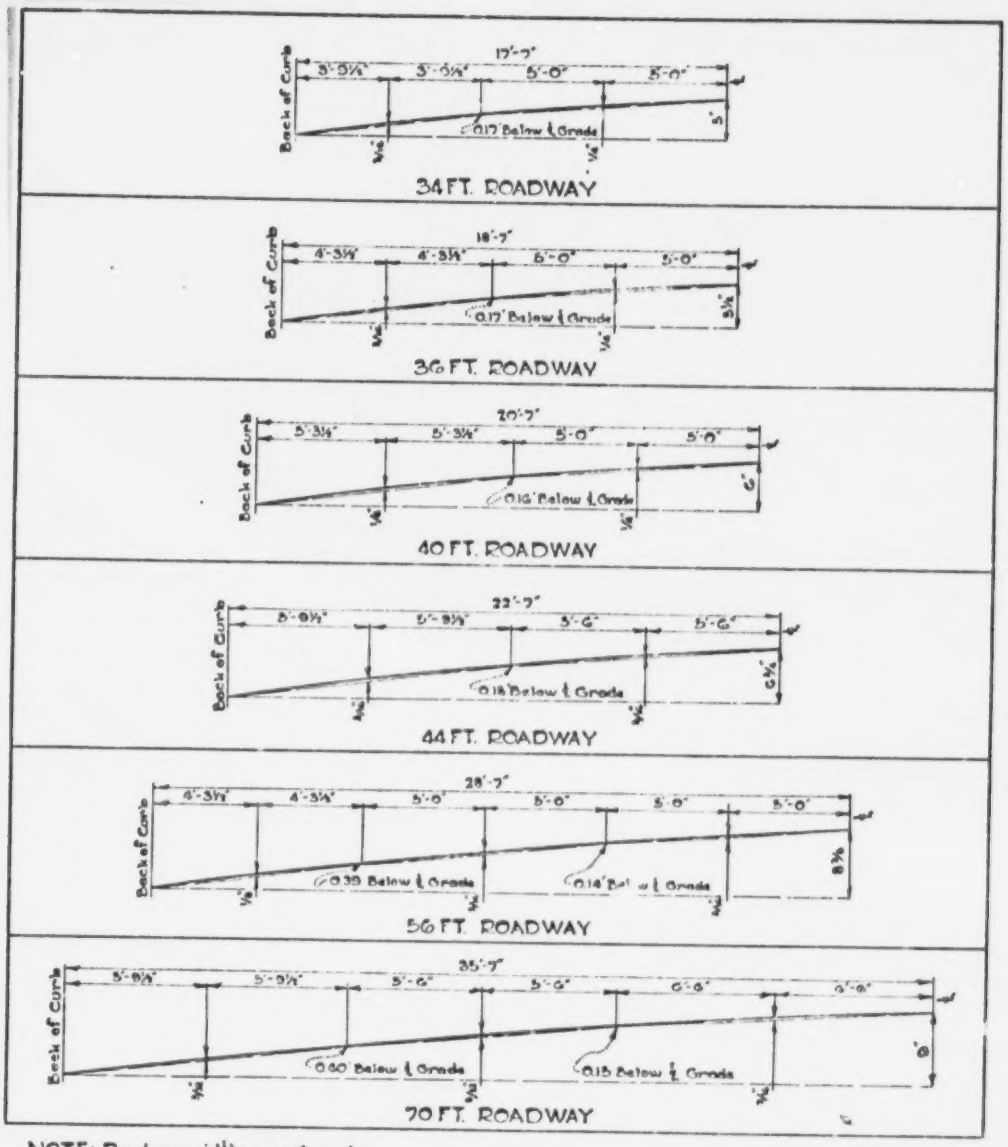


Figure 3-7. SCREED DIAGRAMS FOR 20-24 & 27 FOOT ROADWAYS



NOTE: Roadway widths are based on the use of 7" wide Integral Cone Curb.

Figure 3-8. SCREED DIAGRAMS FOR 34, 36, 40, 44, 56 & 70 FOOT ROADWAYS

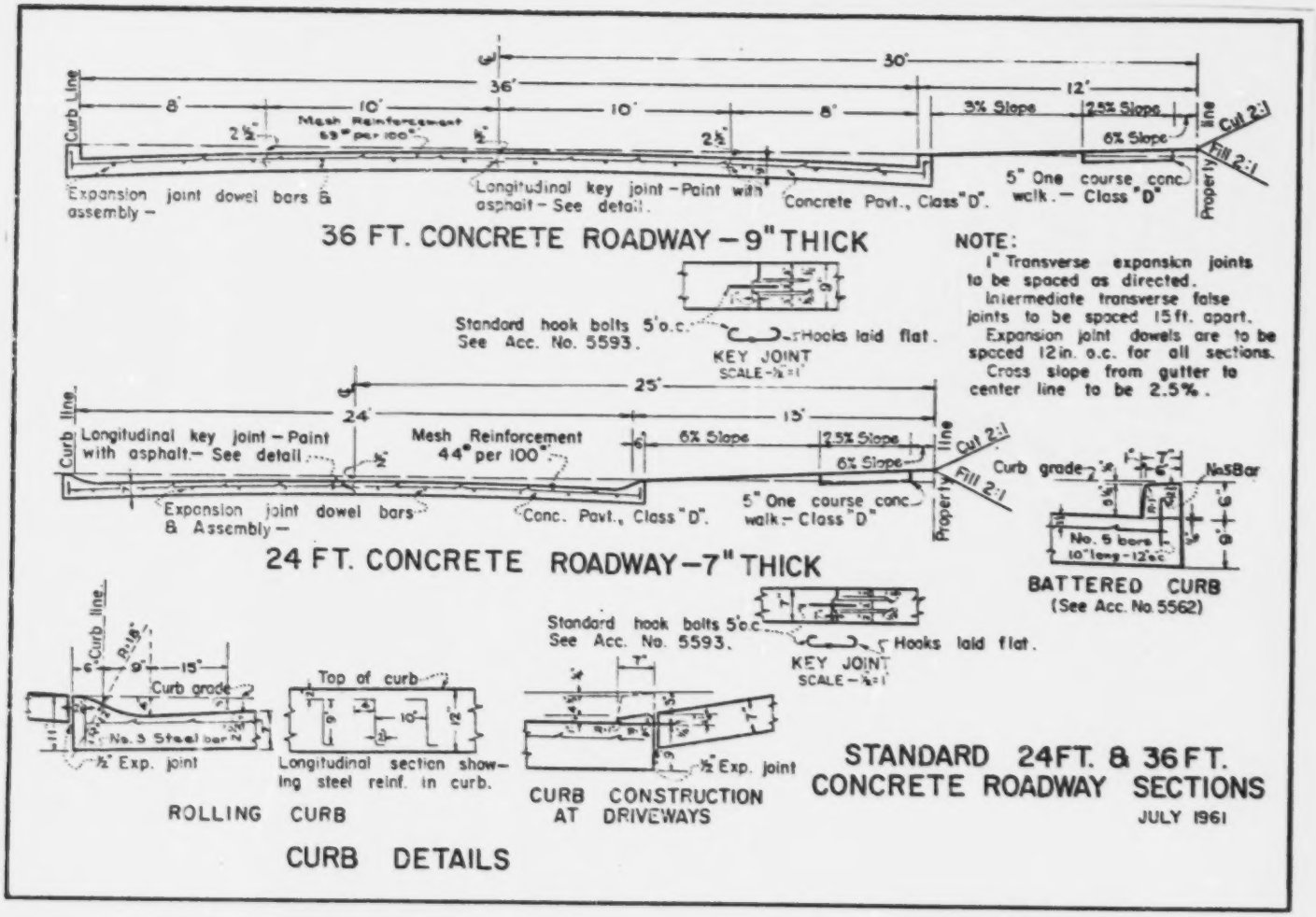


Figure 3-9. STANDARD 24 FOOT & 36 FOOT CONCRETE ROADWAY SECTIONS

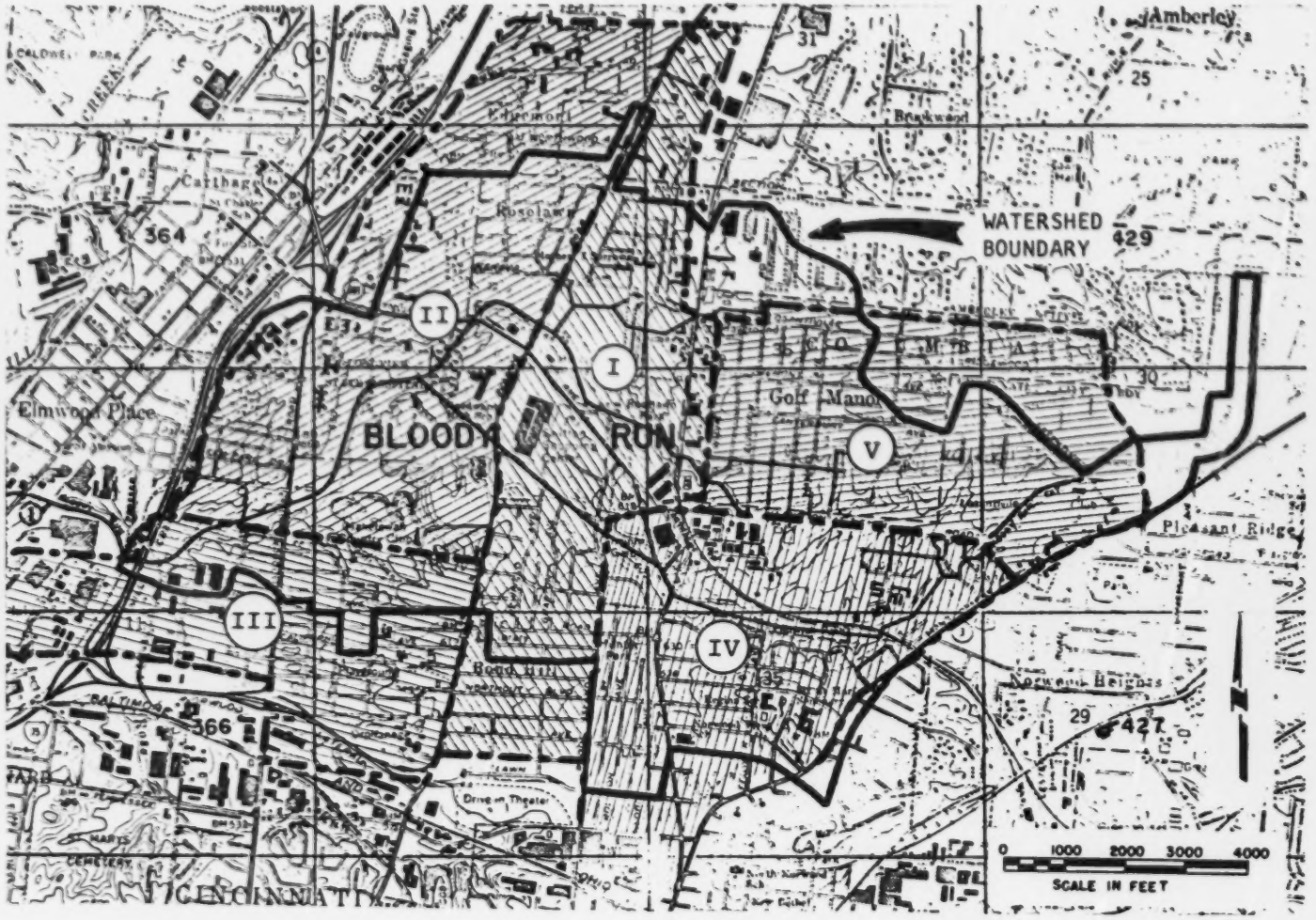


Figure 3-10. DIVISION OF BLOODY RUN SEWER WATERSHED FOR STREET CLEANING INFORMATION

Table 3-6. STREET CLEANING OF THE BLOODY RUN SEWER WATERSHED
(data from City of Cincinnati)

AREA I*

Date	Miles of Streets Swept	Litter-Debris Removed	
		Cubic Yards	Pounds**
3/ 2/70	↑ average 10.7 miles/run	7.3	17500
3/16/70		6.4	15500
3/31/70		7.1	17000
4/13/70		7.8	19000
4/26/70		3.9	10000
5/11/70		8.2	20000
5/25/70		8.3	20000
6/ 9/70		9.8	24000
6/22/70		7.2	17000
7/ 6/70	↓	7.0	17000
7/20/70	10.0	8.5	21000
8/10/70	7.5	5.0	12000
8/31/70	8.5	5.0	12000
9/21/70	8.0	6.0	15000
10/12/70	6.0	5.0	12000
11/ 2/70	10.0	30.0+	unknown

* referring to Figure 3-10.

** one cubic yard has an average weight from 2200 to 2400 lbs.

+ Leaf removal operations. Normal street sweepings and leaves mixed.

Table 3-6. STREET CLEANING OF THE BLOODY RUN SEWER WATERSHED
(data from City of Cincinnati)

AREA II*

Date	Miles of Streets Swept	Litter-Debris Removed	
		Cubic Yards	Pounds**
3/ 9/70	↑	7.1	17000
3/23/70		7.4	18000
4/ 7/70		5.1	12000
4/20/70		6.8	16000
5/ 5/70		6.7	16000
5/18/70		6.2	15000
6/ 1/70		7.5	18000
6/15/70		6.3	15000
6/30/70		6.6	16000
7/13/70	↓ average 8.1 miles/run	6.0	14500
7/27/70	14.0	10.0	24000
8/17/70	17.0	10.0	24000
9/ 8/70	17.0	10.0	24000
9/28/70	17.0	15.0	36000
10/19/70	10.8	15.0	36000
11/ 9/70	18.0	100.0+	unknown

* referring to Figure 3-10.

** one cubic yard has an average weight from 2200 to 2400 lbs.

+ Leaf removal operations. Normal street sweepings and leaves mixed.

Table 3-6. STREET CLEANING OF THE BLOODY RUN SEWER WATERSHED
(data from City of Cincinnati)

AREA III*

Date	Miles of Streets Swept	Litter-Debris Removed	
		Cubic Yards	Pounds**
3/16/70	↑ average 9.7 miles/run ↓	8.1	19500
3/30/70		8.6	20500
4/13/70		9.6	23000
4/28/70		5.7	14000
5/11/70		8.9	21500
5/25/70		9.9	24000
6/ 8/70		12.7	30500
6/29/70		8.5	20500
8/ 3/70	20.0	10.0	24000
8/24/70	18.0	15.0	36000
9/14/70	14.0	10.0	24000
10/ 5/70	18.0	10.0	24000
10/26/70	18.0	25.0+	unknown
11/16/70	10.0	60.0+	unknown

* referring to Figure 3-10.

** one cubic yard has an average weight from 2200 to 2400 lbs.

+ Leaf removal operations. Normal street sweepings and leaves mixed.

Table 3-6. STREET CLEANING OF THE BLOODY RUN SEWER WATERSHED
(data from City of Cincinnati)

AREA IV*

Date	Miles of Street Swept	Litter-Debris Removed	
		Cubic Yards	Pounds**
3/12/70	↑ average 8.1 miles/run ↓	6.3	14000
3/26/70		5.8	13000
4/ 9/70		6.6	14500
4/23/70		5.2	11500
5/ 7/70		4.1	9000
5/21/70		6.9	15000
6/ 4/70		6.3	14000
6/18/70		5.1	11000
7/20/70	8.0	6.5	14500
8/10/70	7.5	5.0	11000
9/31/70	8.5	5.0	11000
9/21/70	8.0	6.0	13000
10/12/70	6.0	5.0	11000
11/ 2/70	8.0	26.0+	unknown

* referring to Figure 3-10.

** one cubic yard has an average weight from 2200 to 2400 lbs.

+ Leaf removal operations. Normal street sweepings and leaves mixed.

Table 3-6. STREET CLEANING OF THE BLOODY RUN SEWER WATERSHED
(data from City of Cincinnati)

AREA V*

Date	Miles of Streets Swept	Litter-Debris Removed	
		Cubic Yards	Pounds**
3/ 6/70	↑ average 6.7 miles/run ↓	4.3	10000
3/20/70		4.1	9500
4/ 4/70		3.6	8300
4/17/70		3.7	8500
5/ 1/70		2.1	5000
5/15/70		2.9	7000
5/29/70		3.9	9000
6/12/70++		4.3	10000

* referring to Figure 3-10.

** one cubic yard has an average weight from 2200 to 2400 lbs.

++ no data available after this date

SECTION 4

DESCRIPTION AND LAYOUT OF THE SEWER AND MONITORING SYSTEMS

The Bloody Run Sewer network is a combined system with a main trunk line that splits into three branches following the valleys of the watershed. Figure 4-1 presents the general sewer layout with the dimensions of the bigger than 27 inches pipes.

The sewer outfall is located at the southwestern tip of the watershed and discharges into an interceptor leading to the Mill Creek Waste Water Treatment Plant. Overflows from storms are discharged directly into the Mill Creek through an open channel.

In Figure 4-2, the elements of the sewer system (pipes and manholes) are numbered for identification. Manholes are located wherever there is a significant change in pipe size, direction, or slope. Each of the 37 subareas, previously described, has its individual inlet manhole. The size, slope, and length of the sewer pipes is tabulated in Table 4-1.

Other elements of the Bloody Run Sewer System such as standard gutter inlets, standard valley inlets, standard ditch inlets, standard manholes for all the pipe sizes, and standard drop manholes are presented in Figures 4-3 to 4-17.

Three raingages manufactured by the Belfort Instrument Company, record automatically the accumulative mass curve of each rainfall. The raingages (Figure 4-19) record the rainfall by use of a weighing mechanism which causes a pen to trace changes on a chart in a pre-balanced collection system. The charts, which can be of 24 or 48 hours, record up to 6 inches of total rainfall. The location of the three raingages is shown on Figure 4-18. The first raingage is located immediately southwest of the study area on the roof of the Environmental Protection Agency, Air Pollution Control Office at 1055 Laidlaw Avenue. The rotation period of this raingage is 48 hours. The second raingage is located immediately southeast of the study area on the roof of the Environmental Protection Agency, Solid Wastes Office and Water Quality Office at 5555 Ridge Avenue. This raingage has a rotation period of 48 hours. The third raingage is installed in the Bloody Run Sewer Basin, on the roof of Woodward High School, at Reading Road in front of Swifton Shopping Center. This raingage has a rotation period of 24 hours.

Three monitoring stations are taking flow measurements and samples automatically during each rainfall. The locations of these stations are shown on Figure 4-18.

The "Bank" monitoring station is located off the rear of the parking lot of the Central Trust Bank near Swifton Shopping Center at the corner of Reading Road and Losantiville, as shown on Figure 4-20. The sampling and flow measuring apparatus (Figures 4-21, 4-22, and 4-23) are connected with a 54" and a 78" sewer which join there (Figure 4-24). These two pipes have been photographed during dry weather flow and are presented in Figures 4-25 and 4-26.

The "Longview" monitoring station is located at the back yard of the Longview Hospital on the corner of Paddock Road and Seymour Avenue as shown on Figures 4-27 and 4-28. The sampling and flow measuring apparatus shown on Figures 4-29 and 4-30 are connected with a 11' x 9' and a 12' x 9' semi-circular sewer which join there.

The "Outlet" monitoring station is located 50 yards from the intersection of Murray and Prosser Streets, on Prosser Street as shown on Figures 4-31 and 4-32. The gate covering the storm water outfall is shown on Figure 4-33. Automatic equipment has been installed (Figures 4-34, 4-35, and 4-36) which takes samples and flow measurements from the 10' x 15' sewer, 20 feet upstream from the interceptor.

The flow measuring apparatus consists of a compressor, a manometer, and a Taylor pressure type recorder. This recorder operates by measuring the pressure due to the depth and velocity of water flowing into the pipe by bubbling air through a long tube inserted into the water. The gage releases air at a constant pressure and as the depth and the velocity of flow changes, the pressure differential is recorded on a circular chart in inches of water.

To obtain readily the discharge corresponding to the measured specific energy, Manning's equation has been used to express the depth and velocity of flow as functions of the discharge and the hydraulic radius of the sewer cross sections. Thus the curves on Figures 4-37, 4-38, 4-40, 4-42, and 4-44 have been calculated relating the measured specific energy and the corresponding discharge at the five monitored locations.

The United States Department of Commerce has also four raingages surrounding the Bloody Run Sewer Watershed. Their location is shown in Figure 4-45.

In Table 4-2 the hourly precipitation in inches is tabulated from May 1970 to October 1970,to indicate how this data is available, from the records of the Abbe Observatory and the Greater Cincinnati Airport raingages.

This kind of information is valuable in checking the Bloody Run raingages and in providing an idea about the storm advancement over the Bloody Run Watershed.

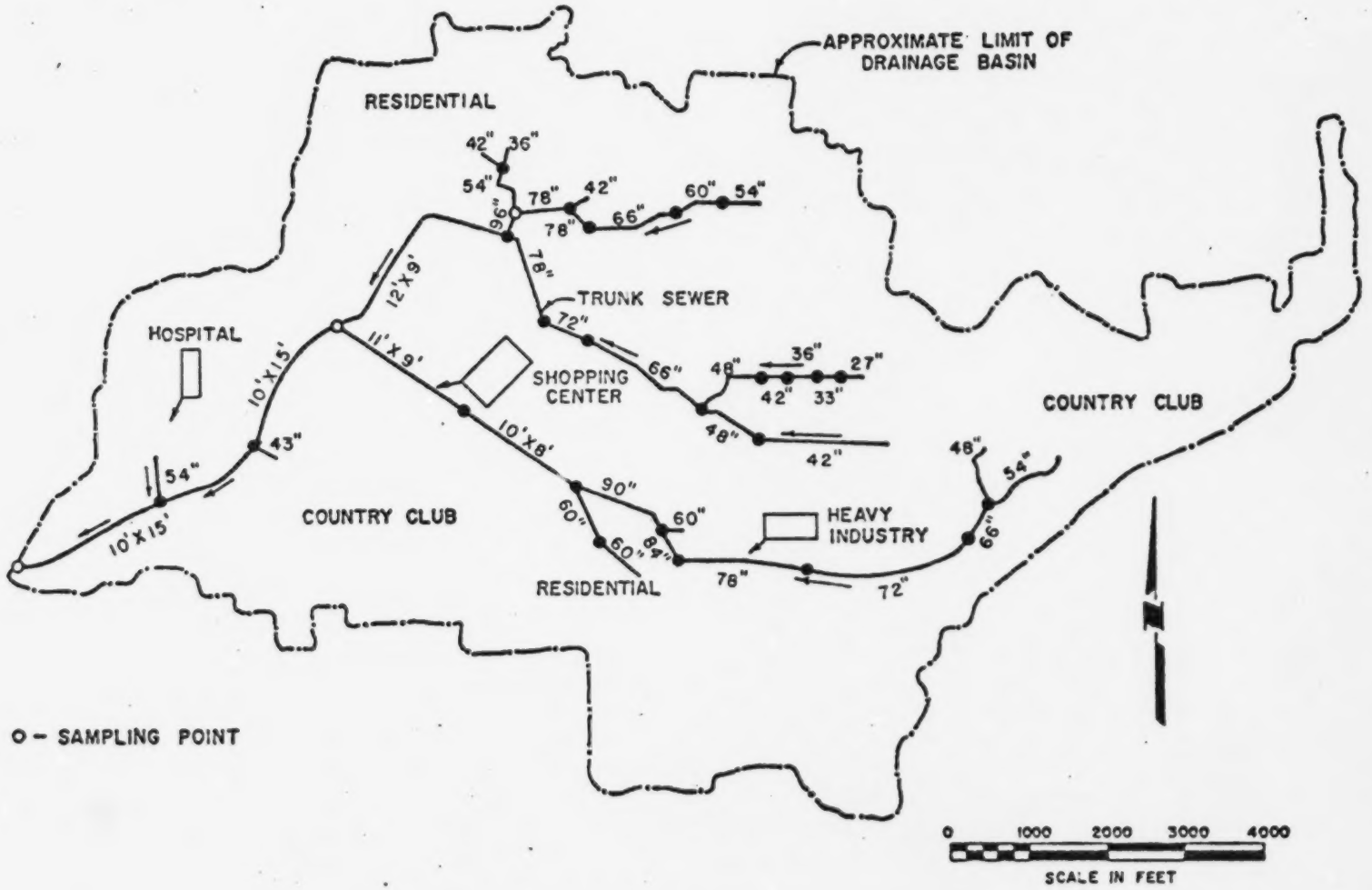


Figure 4-1. GENERAL SEWER LAYOUT MAP OF BLOODY RUN SEWER BASIN

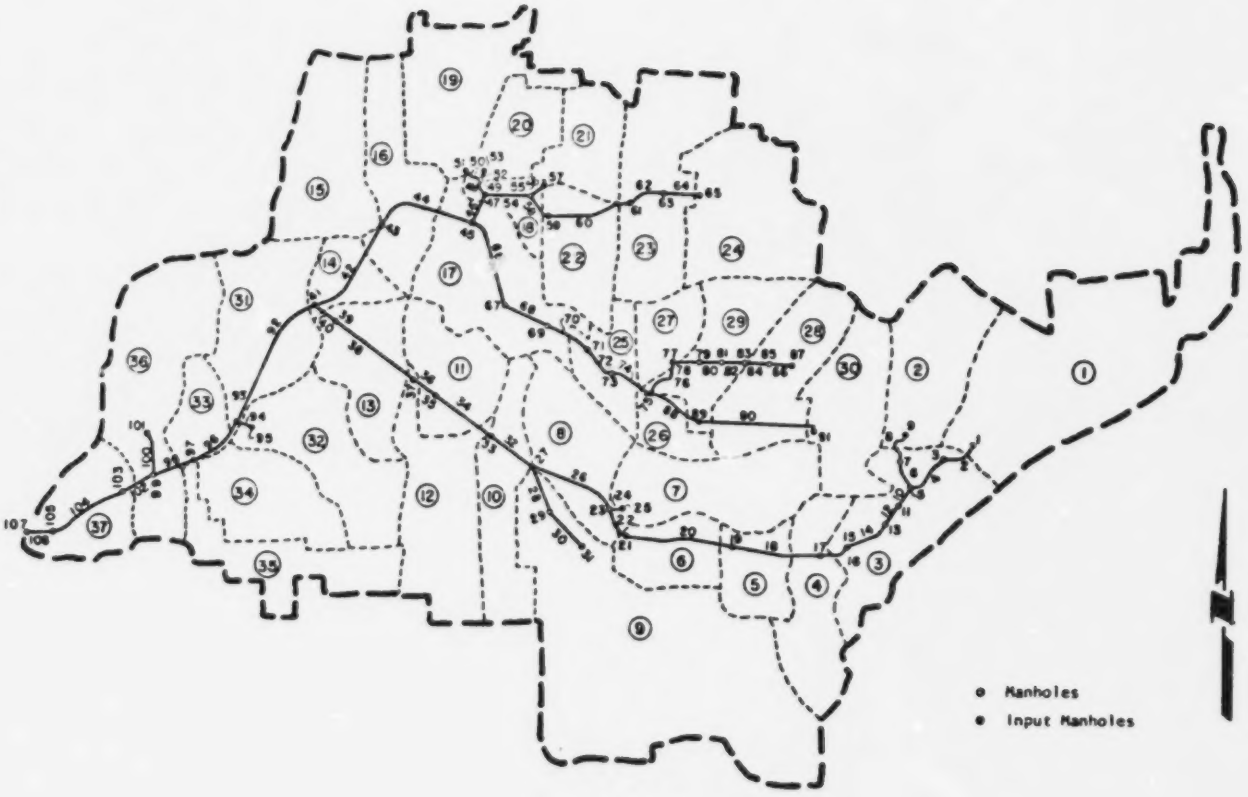


Figure 4-2. DIVISION OF BLOODY RUN SEWER BASIN INTO SUBAREAS AND NUMBERING OF THE SEWER SYSTEM'S ELEMENTS

Table 4-1. BLOODY RUN BASIN SEWER ELEMENTS

Element Number *	Location or Diameter	Slope	Contributing Subarea* or Length (feet)
1	input manhole		Drainage Subarea 1
2	54"	2.60%	394.0
3	manhole		
4	54"	2.30%	689.3
5	manhole		
6	48"	2.20%	380.4
7	manhole		
8	48"	2.60%	467.0
9	input manhole		Drainage Subarea 2
10	66"	1.40%	319.4
11	manhole		
12	72"	0.90%	345.3
13	manhole		
14	75"	1.00%	577.0
15	input manhole		Drainage Subarea 3
16	72"	1.40%	462.7
17	input manhole		Drainage Subarea 4
18	72"	1.80%	1428.5
19	input manhole		Drainage Subarea 5
20	78"	1.25%	1432.0
21	input manhole		Drainage Subarea 6
22	84"	1.10%	664.0
23	manhole		
24	60"	1.00%	149.7
25	input manhole		Drainage Subarea 7
26	90"	1.30%	1238.5
27	input manhole		Drainage Subarea 8
28	60"	1.20%	750.0
29	manhole		
30	60"	1.00%	700.0
31	input manhole		Drainage Subarea 9
32	10' x 8'	0.70%	700.0
33	input manhole		Drainage Subarea 10
34	10' x 8'	0.70%	900.0
35	input manhole		Drainage Subarea 11
36	10' x 8'	0.70%	438.3
37	input manhole		Drainage Subarea 12
38	11' x 9'	0.40%	1473.6
39	input manhole		Drainage Subarea 13
40	11' x 9'	0.40%	350.0
41	input manhole		Drainage Subarea 14
42	12' x 9'	0.30%	1673.1
43	input manhole		Drainage Subareas 15 & 16
44	12' x 9'	0.28%	1433.4
45	input manhole		Drainage Subarea 17
46	96"	0.60%	595.4

*referring to Figure 4-1.

Element Number	Location or Diameter	Slope	Contributing Subarea* or Length (feet)
47	input manhole		Drainage Subarea 18
48	54"	1.30%	291.2
49	manhole		
50	42"	2.40%	231.0
51	input manhole		Drainage Subarea 19
52	36"	3.40%	76.0
53	input manhole		Drainage Subarea 20
54	78"	0.90%	698.7
55	manhole		
56	42"	2.10%	209.3
57	input manhole		Drainage Subarea 21
58	78"	0.80%	442.8
59	input manhole		Drainage Subarea 22
60	66"	1.30%	1086.0
61	input manhole		Drainage Subarea 23
62	60"	1.50%	463.4
63	manhole		
64	54"	1.50%	475.5
65	input manhole		Drainage Subarea 24
66	78"	0.86%	1251.9
67	manhole		
68	72"	1.00%	930.4
69	manhole		
70	66"	1.90%	365.0
71	input manhole		Drainage Subarea 25
72	66"	2.30%	404.7
73	manhole		
74	66"	1.10%	800.2
75	input manhole		Drainage Subarea 26
76	48"	1.57%	481.0
77	input manhole		Drainage Subarea 27
78	48"	2.18%	354.4
79	manhole		
80	42"	5.70%	253.6
81	manhole		
82	36"	1.42%	389.4
83	manhole		
84	33"	1.67%	342.0
85	manhole	drop 24"	
86	27"	1.65%	325.9
87	input manhole		Drainage Subarea 28
88	48"	2.10%	858.0
89	input manhole		Drainage Subarea 29
90	42"	1.50%	1700.0
91	input manhole		Drainage Subarea 30
92	15' x 10'	0.28%	2190.0
93	input manhole		Drainage Subarea 31

Element Number	Location or Diameter	Slope	Contributing Subarea* or Length (feet)
94	48"	0.90%	170.0
95	input manhole		Drainage Subarea 32
96	15' x 10'	0.32%	775.0
97	input manhole		Drainage Subareas 33,34,35
98	15' x 10'	0.32%	495.0
99	manhole		
100	54"	0.50%	706.5
101	input manhole		Drainage Subarea 36
102	15' x 10'	0.32%	500.0
103	manhole		
104	15' x 10'	0.34%	1556.0
105	input manhole		Drainage Subarea 37
106	15' x 10'	0.34%	334.0
107	manhole and sewage outlet		

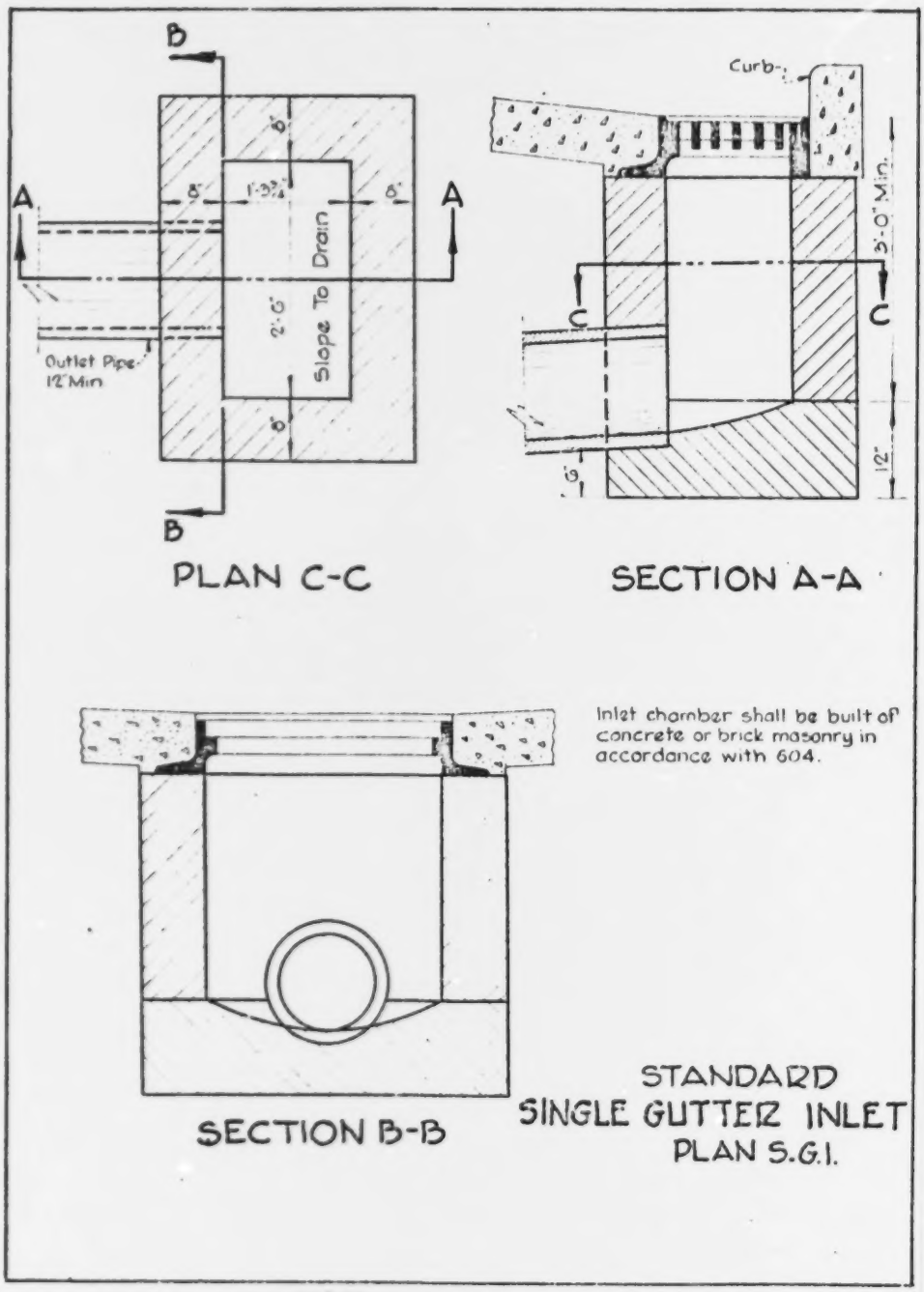


Figure 4-3. STANDARD SINGLE GUTTER INLET

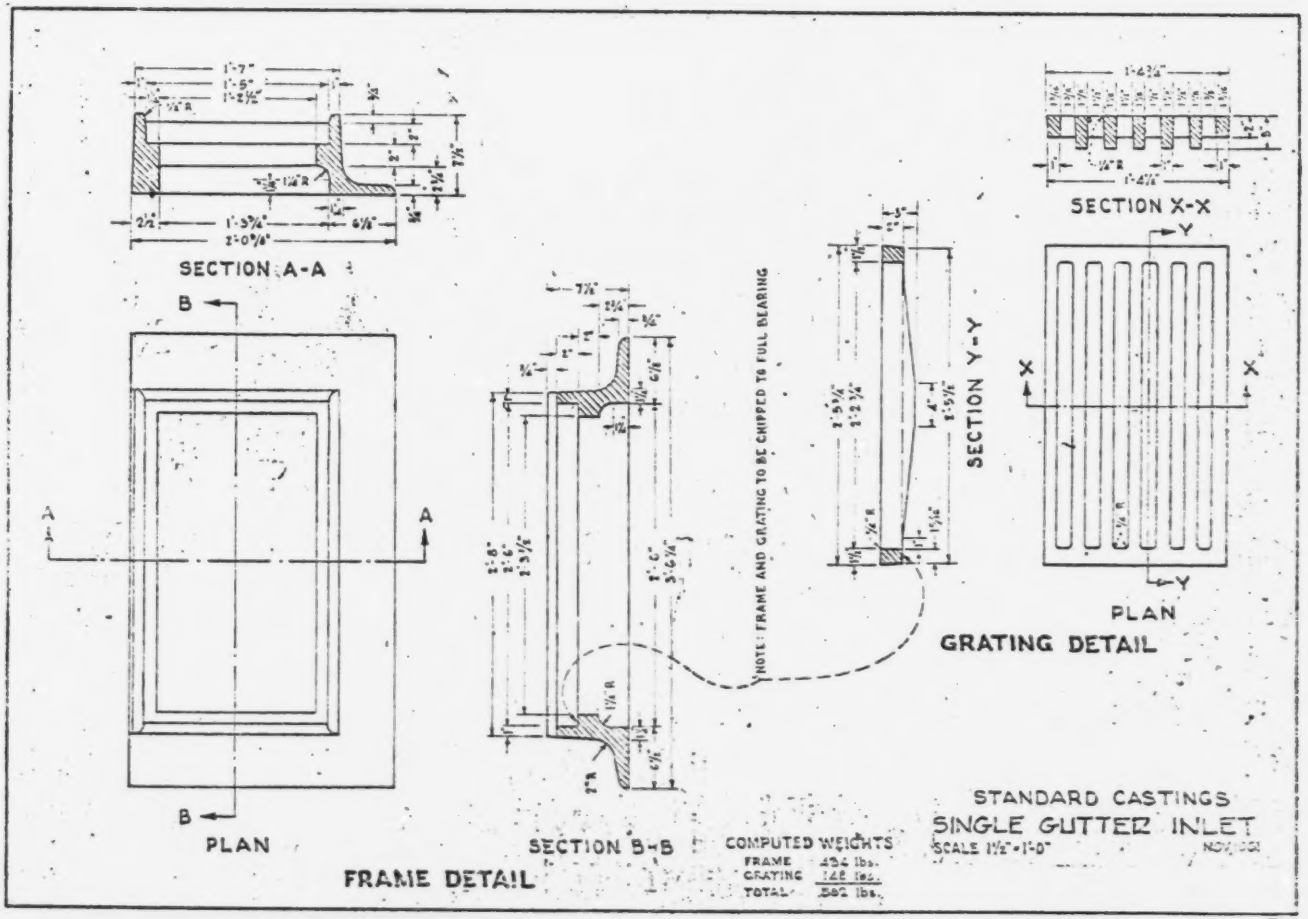


Figure 4-4. STANDARD CASTINGS SINGLE GUTTER INLET

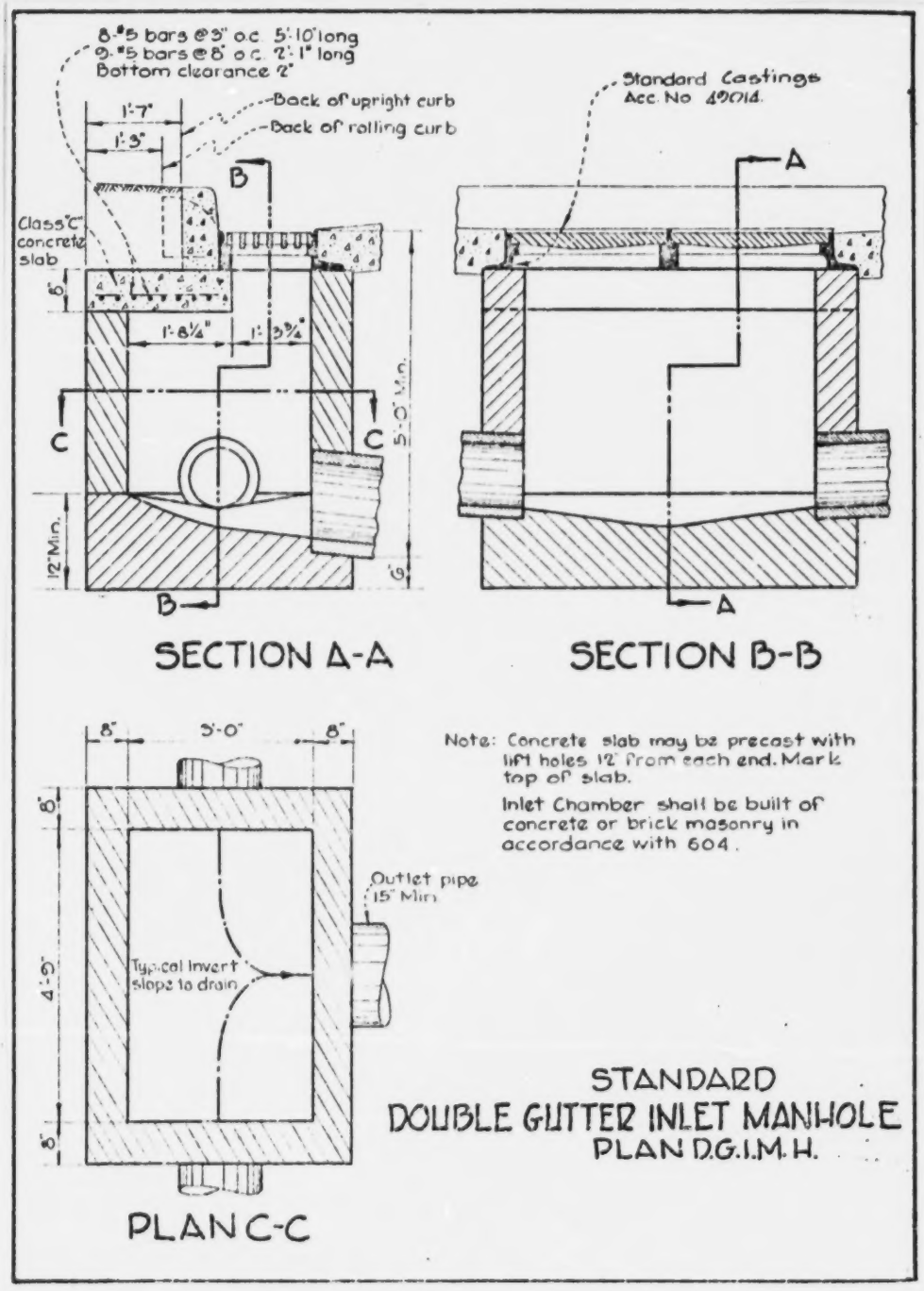


Figure 4-5. STANDARD DOUBLE GUTTER INLET MANHOLE

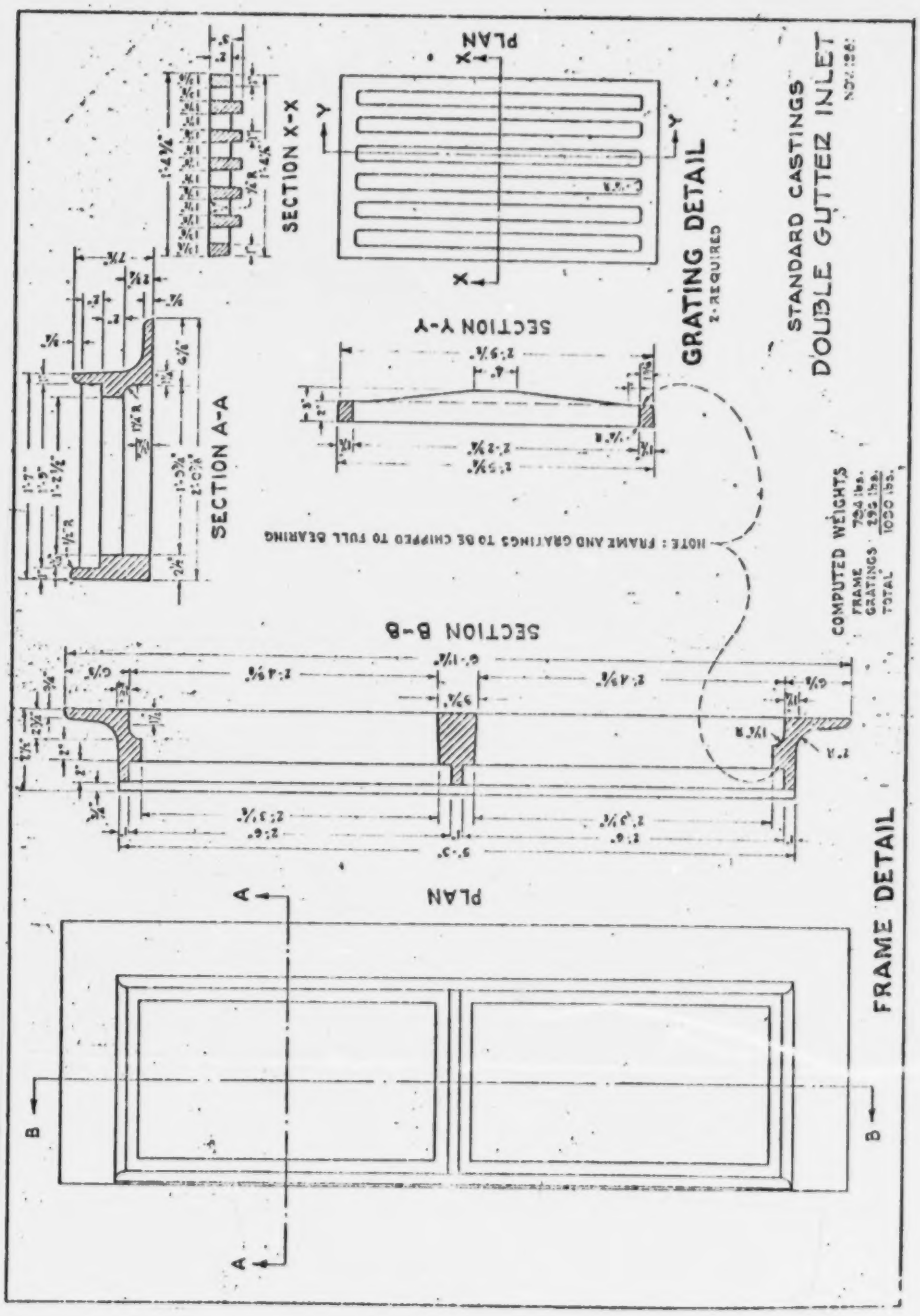


Figure 4-6. STANDARD CASTINGS DOUBLE GUTTER INLET

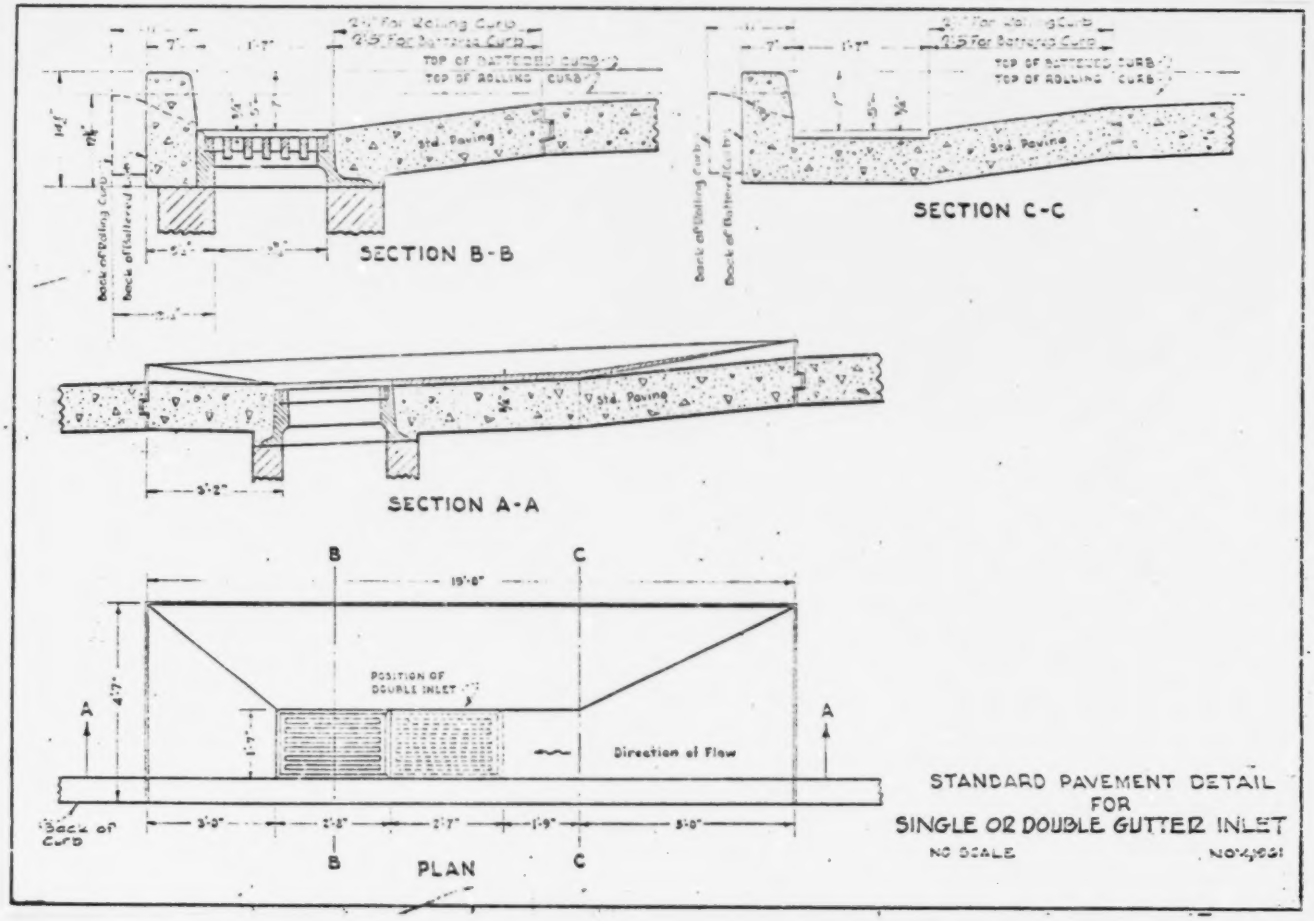


Figure 4-7. STANDARD PAVEMENT DETAIL FOR SINGLE OR DOUBLE GUTTER INLET

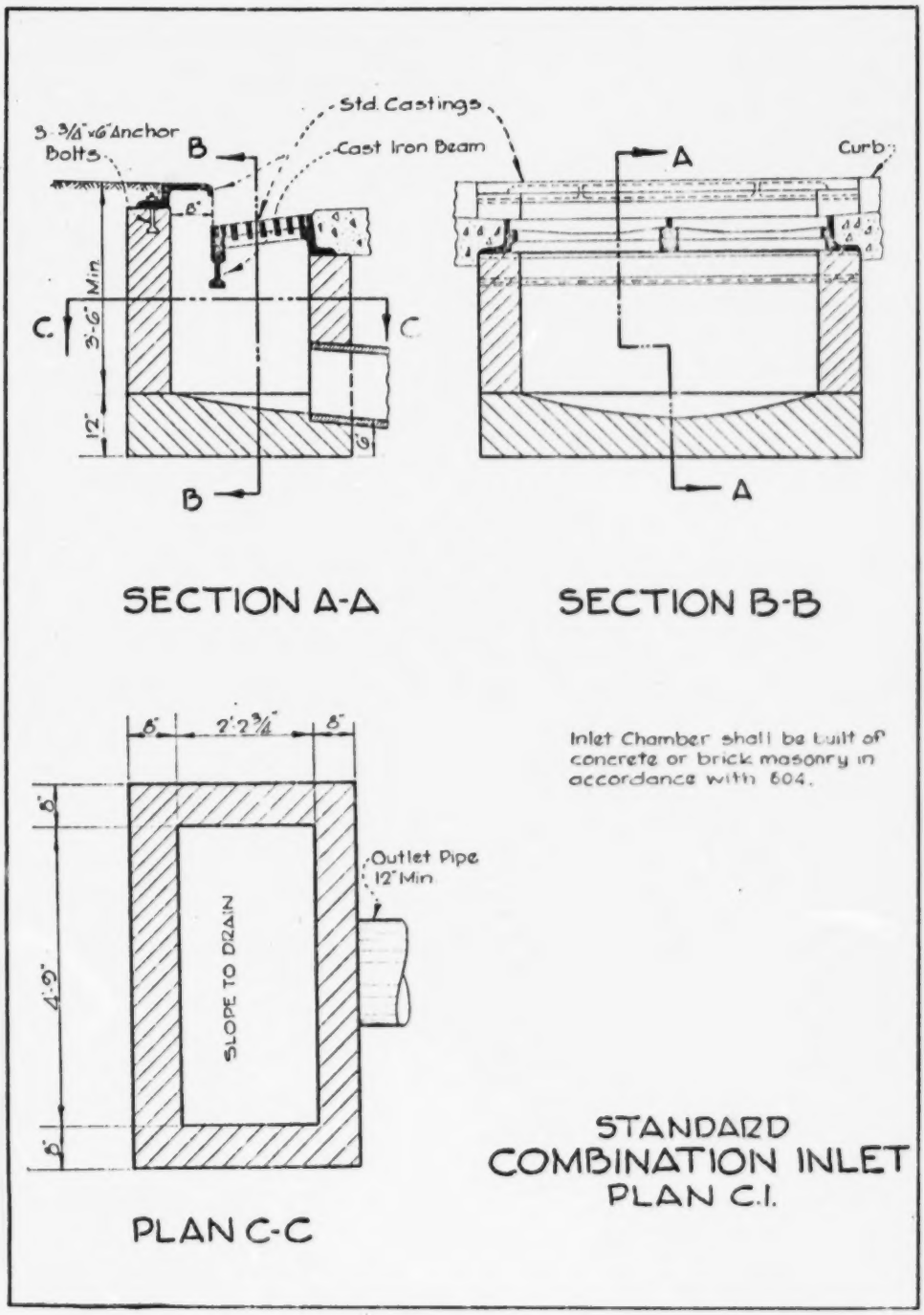


Figure 4-8. STANDARD COMBINATION INLET

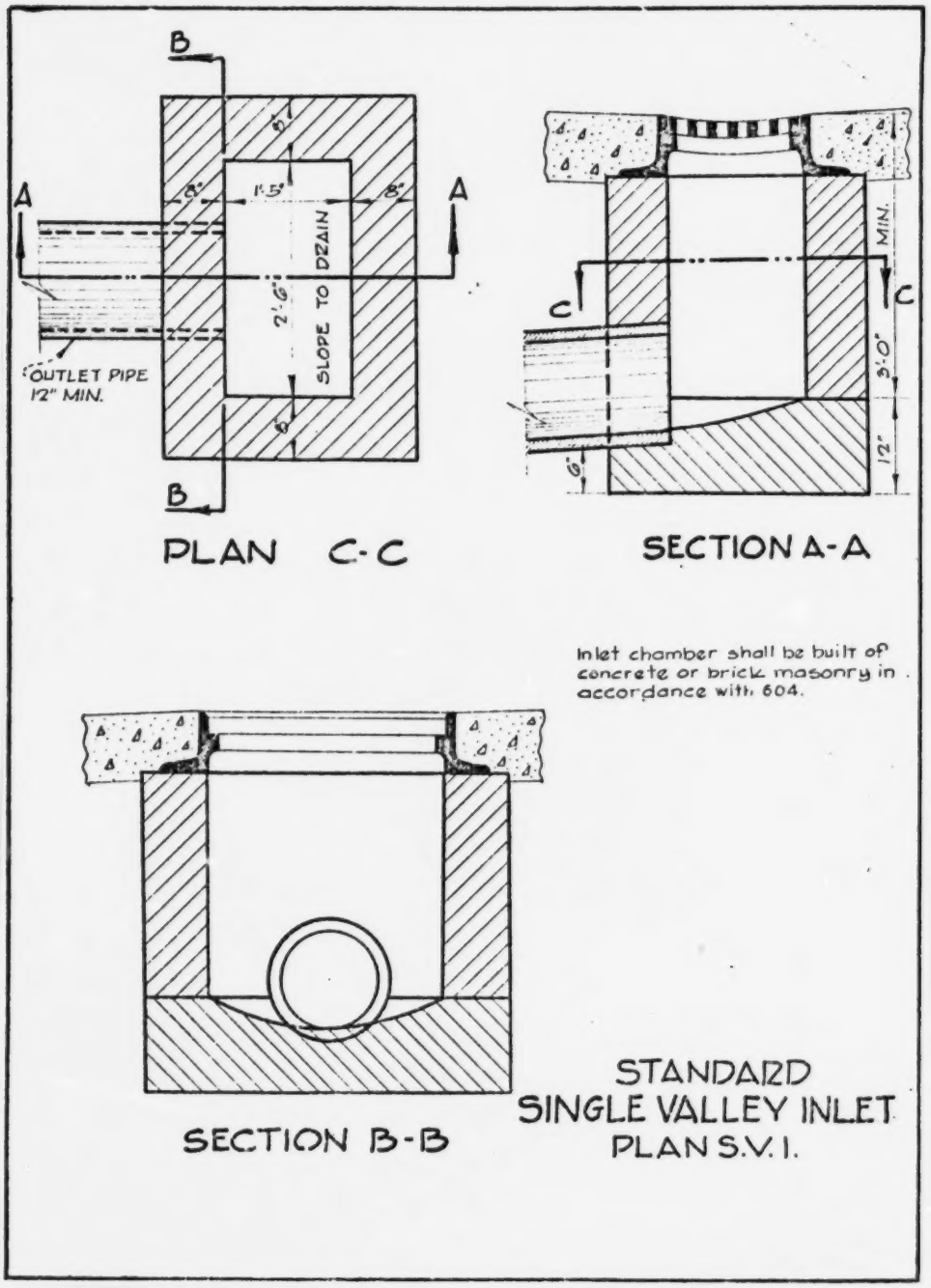


Figure 4-9. STANDARD SINGLE VALLEY INLET

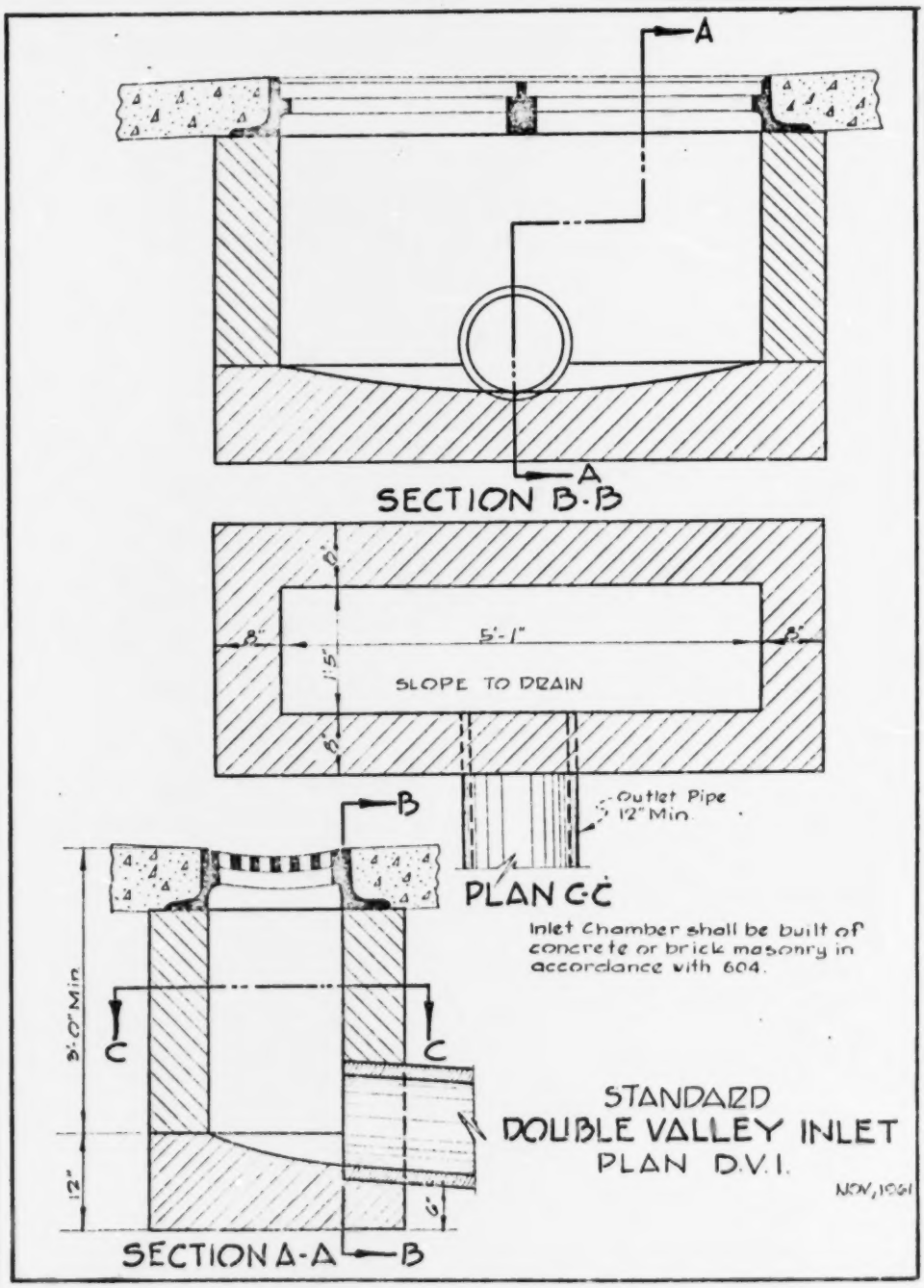


Figure 4-10. STANDARD DOUBLE VALLEY INLET

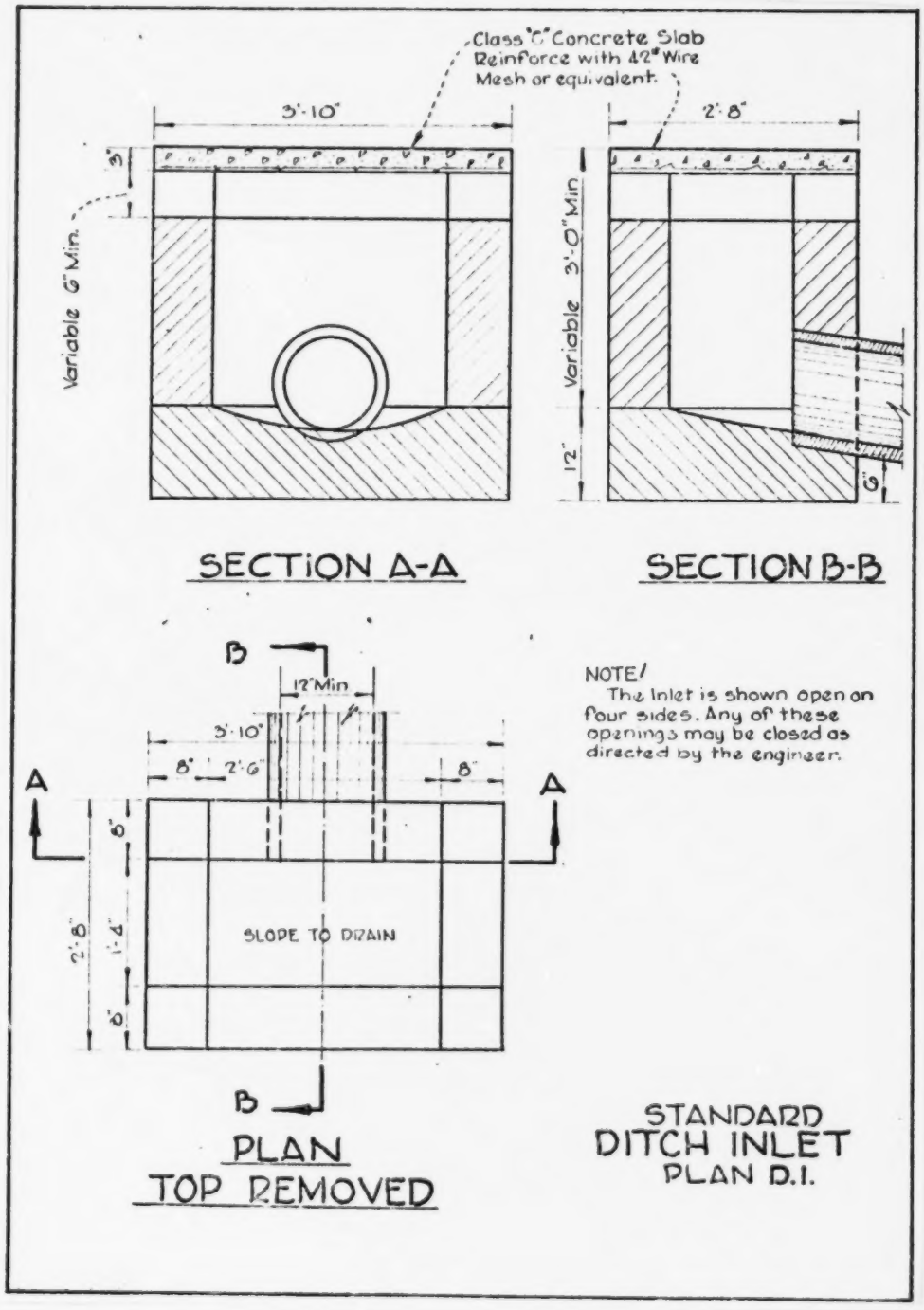


Figure 4-11. STANDARD DITCH INLET

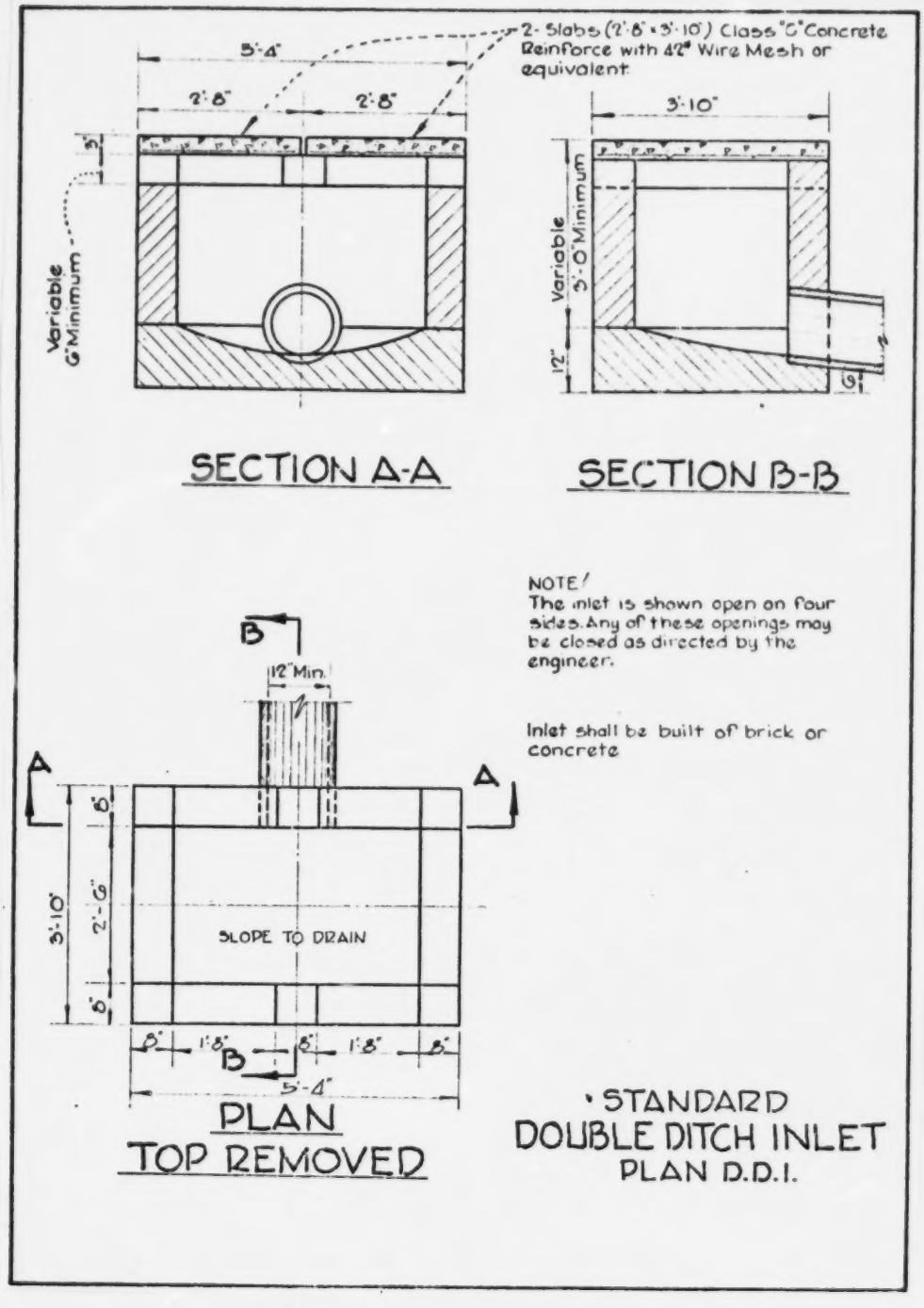


Figure 4-12. STANDARD DOUBLE DITCH INLET

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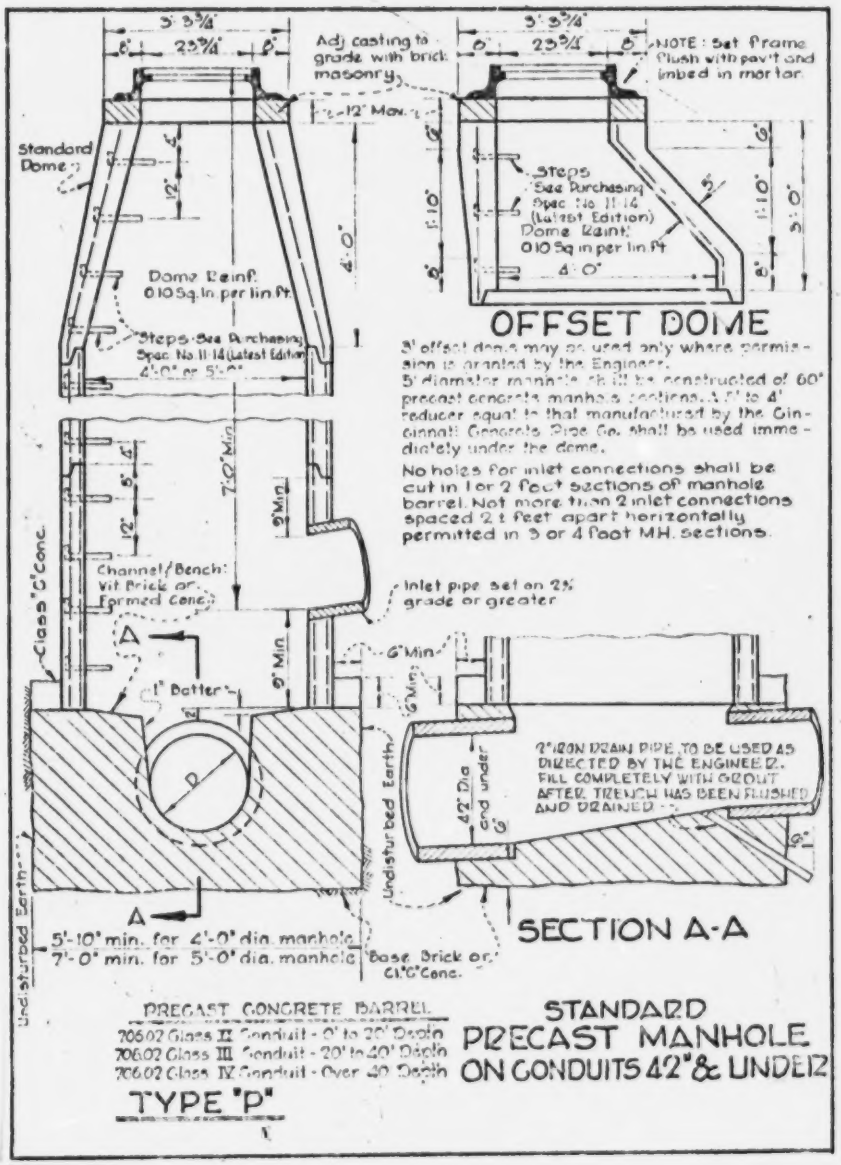

Figure 4-13. STANDARD PRECAST MANHOLE ON CONDUITS 42" AND UNDER

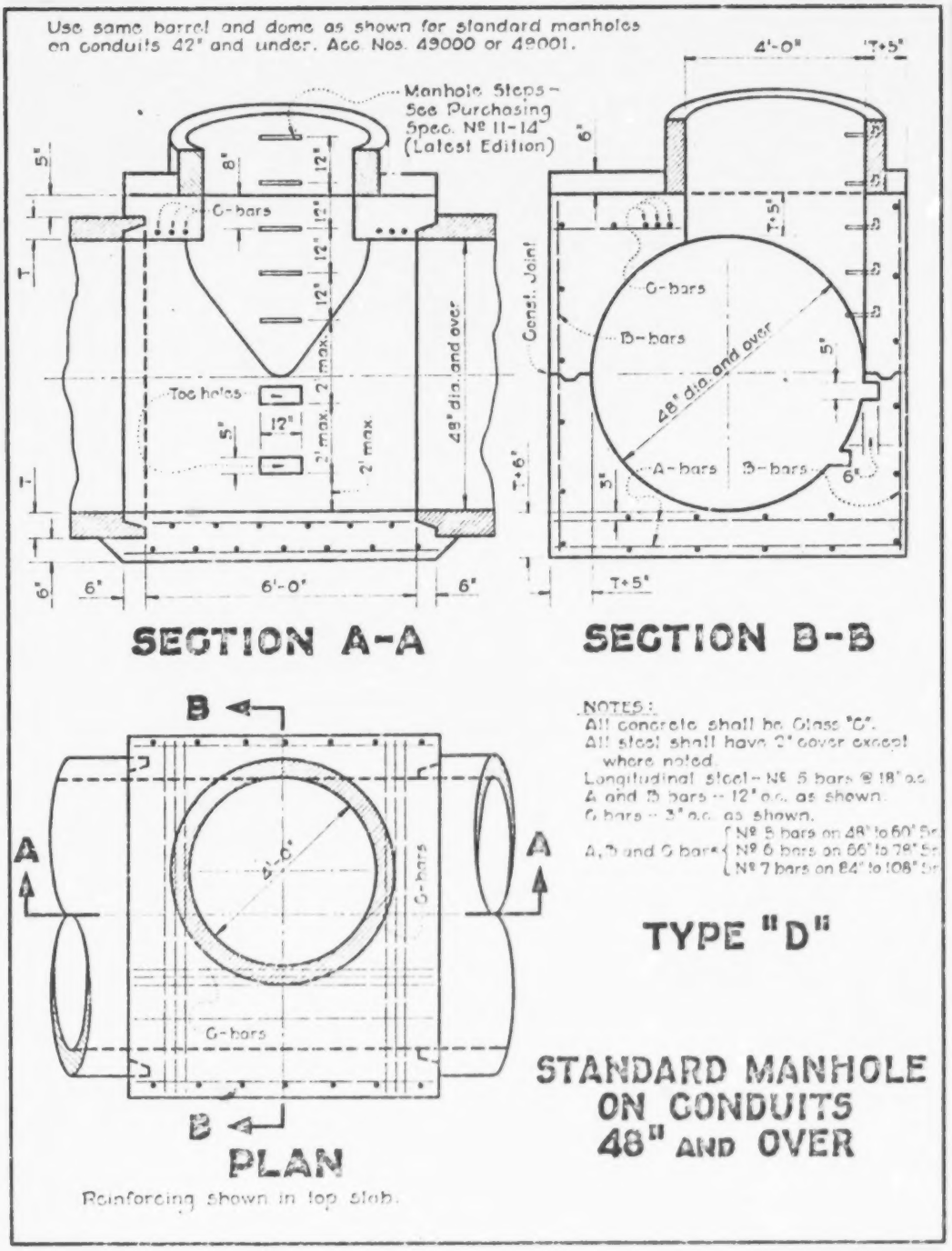

Figure 4-14. STANDARD MANHOLE ON CONDUITS 48" AND OVER

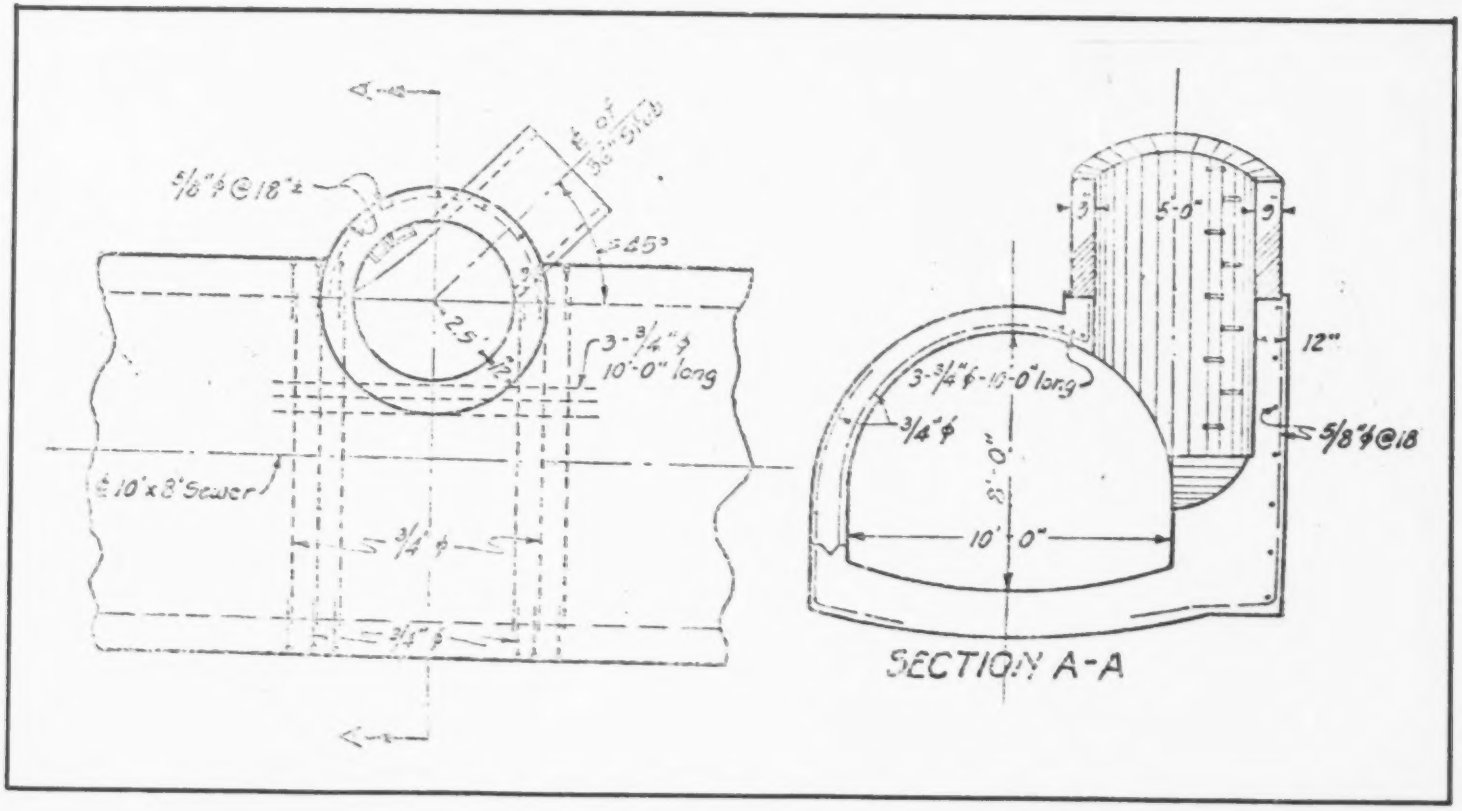

Figure 4-15. TYPICAL MANHOLE ON 10' x 8', 11' x 9', 12' x 9' SEWERS

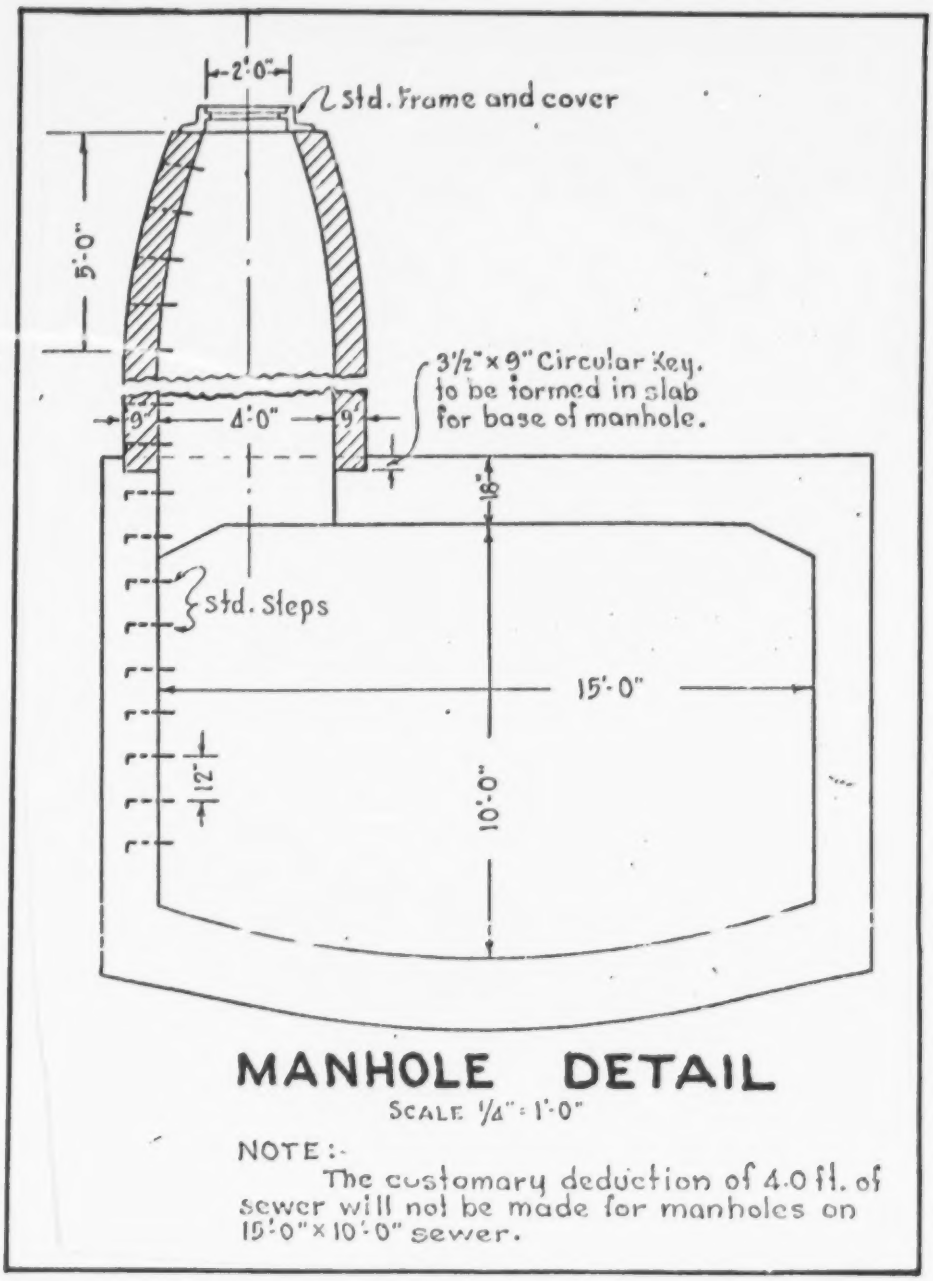

Figure 4-16. MANHOLE ON RECTANGULAR 10' x 15' SEWER

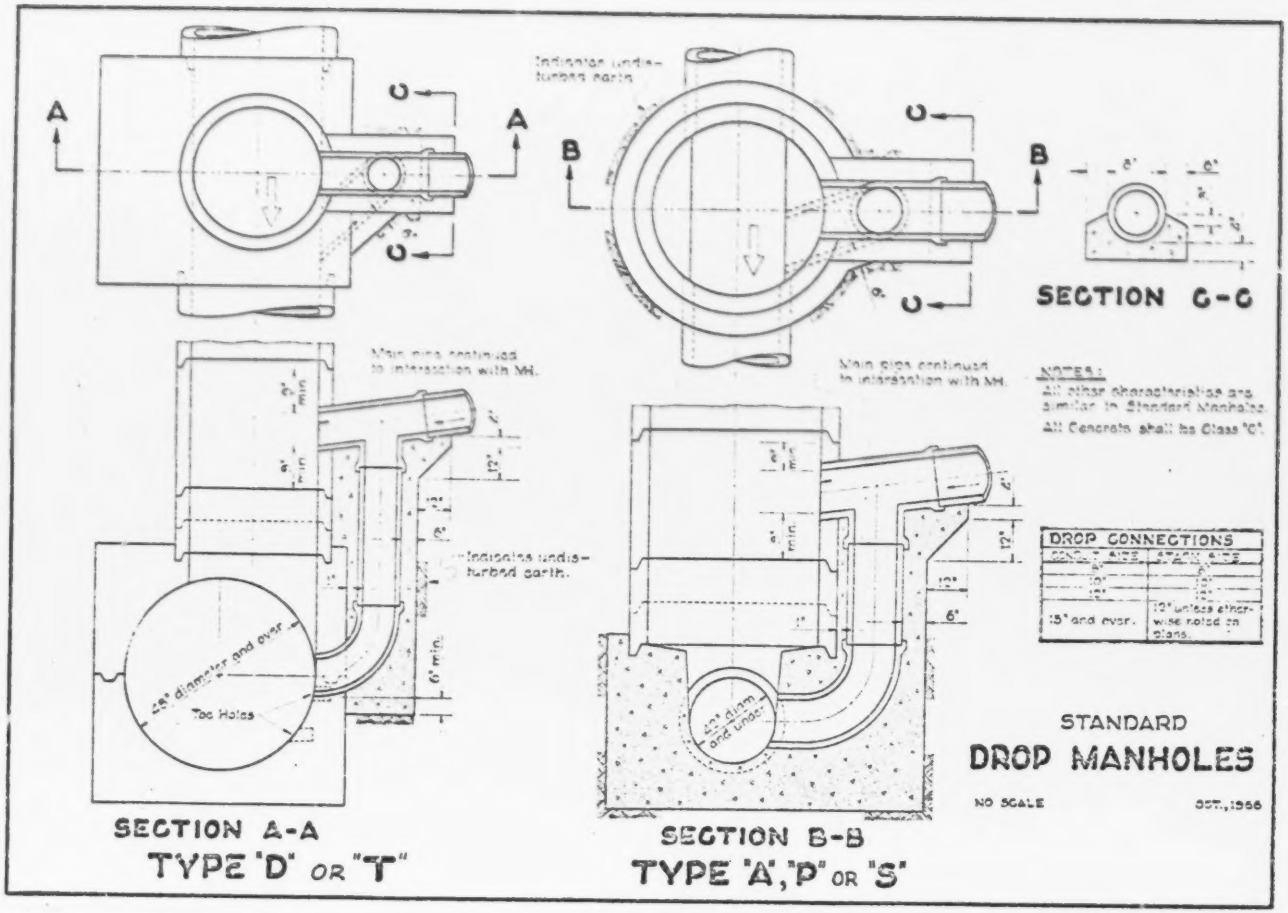

Figure 4-17. STANDARD DROP MANHOLES

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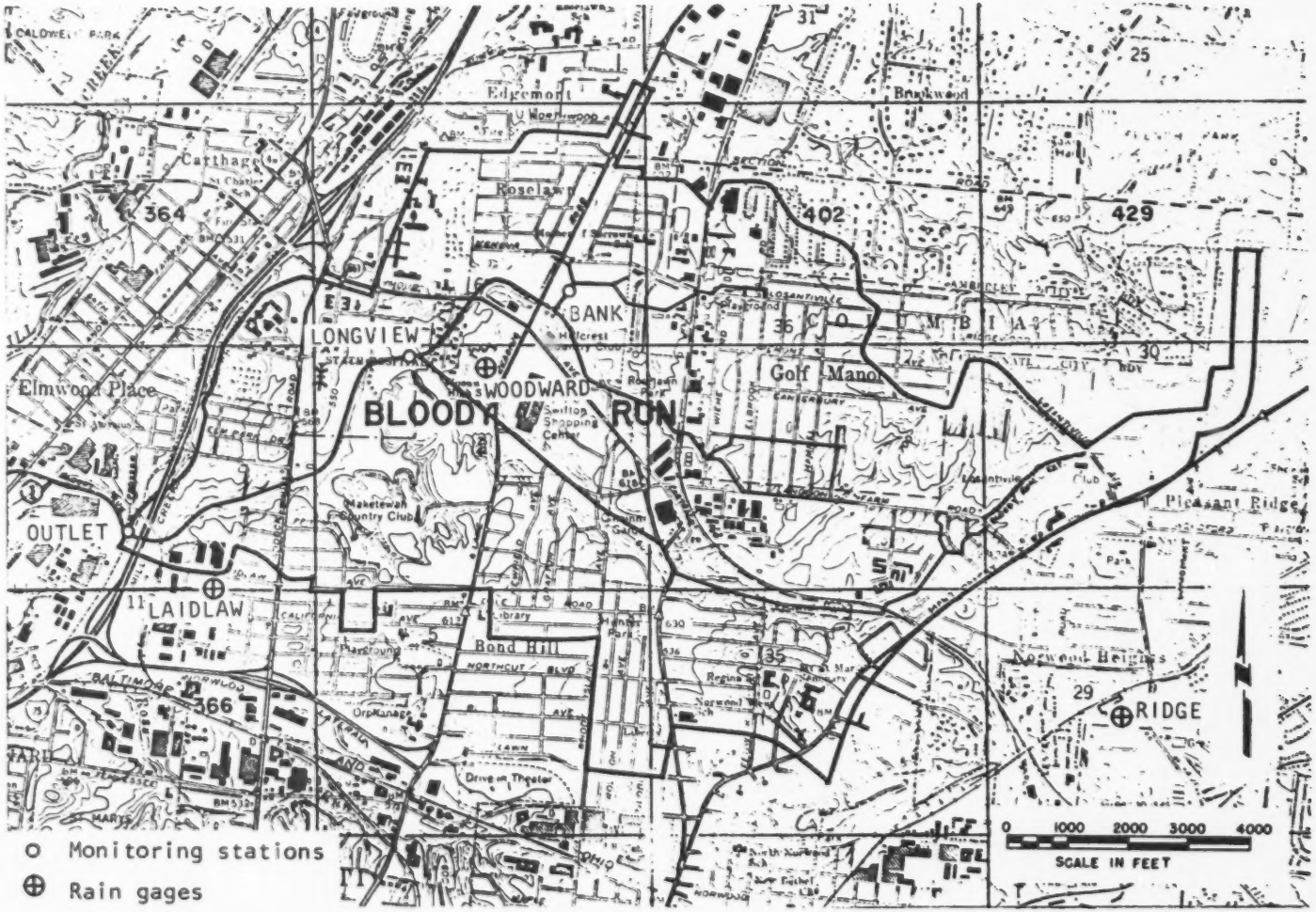

Figure4-18. BLOODY RUN SEWER WATERSHED MONITORING STATIONS AND RAIN GAGES

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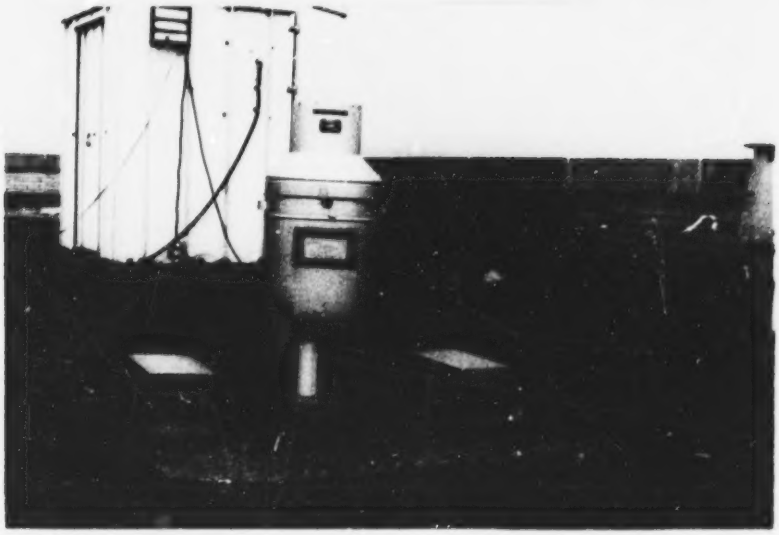

Figure 4-19

TYPICAL RAINGAGE UNIT, ON LAIDLAW AVENUE
NEAR THE OUTLET OF BLOODY RUN BASIN

Figure 4-20

MONITORING STATION BANK NEXT TO SWIFTON SHOPPING CENTER

Figure 4-21.

BANK MONITORING STATION
SAMPLING AND FLOW MEASURING APPARATUS
CONNECTED WITH A 54" AND A 78" SEWER

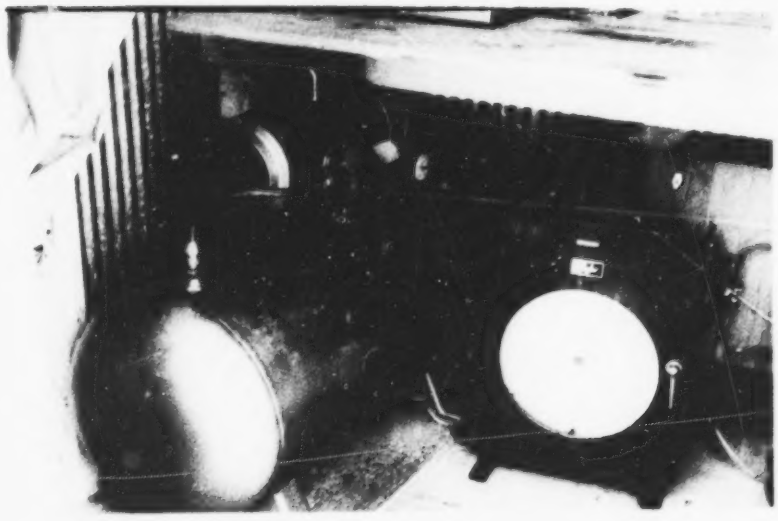

Figure 4-22.

BANK MONITORING STATION
AIR-COMPRESSOR AND TAYLOR FLOW RECORDER

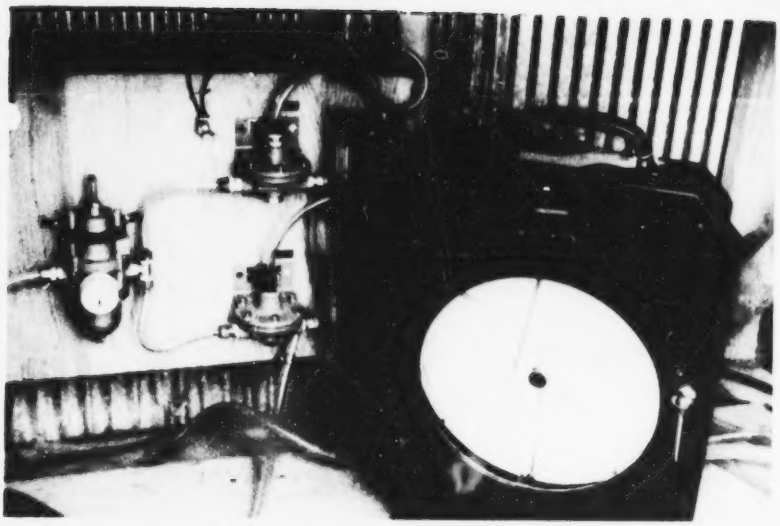

Figure 4-23.

BANK MONITORING STATION
MANOMETERS AND TAYLOR FLOW RECORDER

Figure 4-24.

BANK MONITORING STATION. JUNCTION OF TWO SEWER PIPES,
54" AND 78" IN DIAMETER

Figure 4-25.
SEWER, 78" IN DIAMETER, DURING DRY WEATHER FLOW
(BANK MONITORING STATION)

Figure 4-26.
SEWER, 54" IN DIAMETER, DURING DRY WEATHER FLOW
(BANK MONITORING STATION)

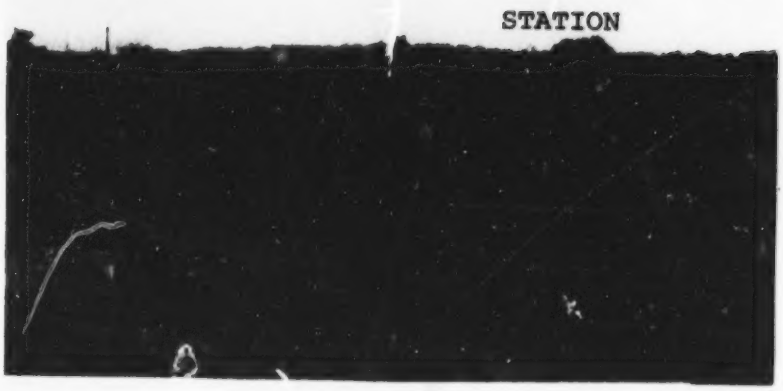

Figure 4-27.
GENERAL VIEW OF THE LONGVIEW MONITORING STATION AREA

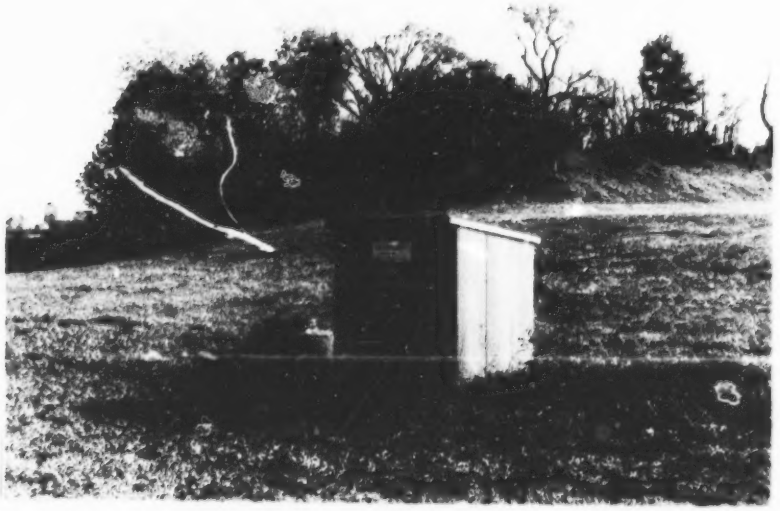

Figure 4-28.
LONGVIEW MONITORING STATION

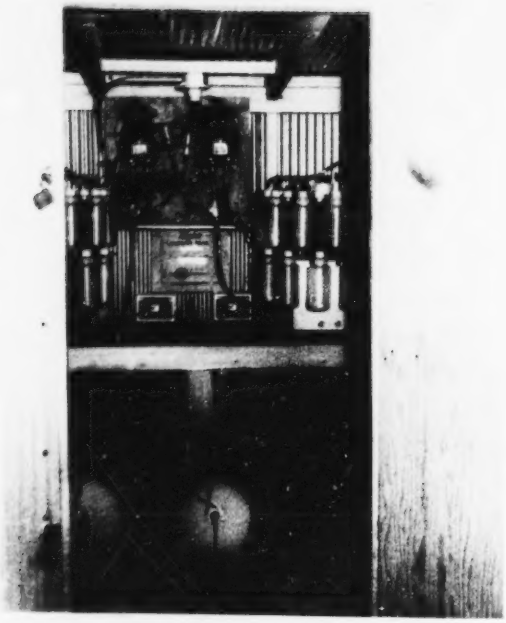

Figure 4-29.
LONGVIEW MONITORING STATION
SAMPLING AND FLOW MEASURING APPARATUS

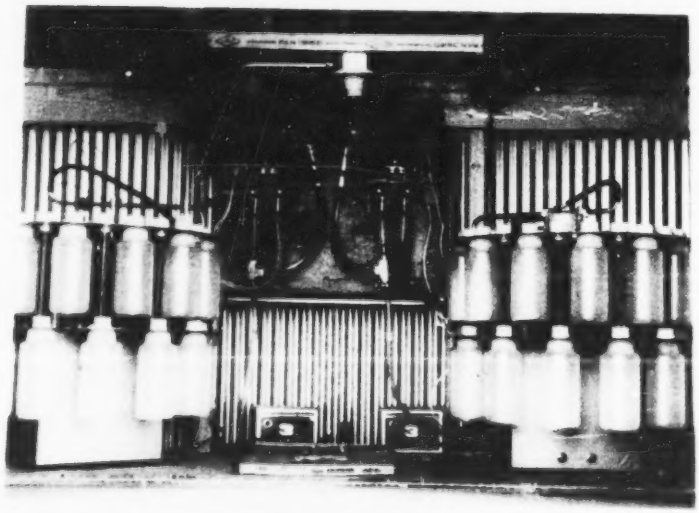

Figure 4-30.
LONGVIEW MONITORING STATION
THE TWO SAMPLING INSTALLATIONS CONNECTED
WITH 11' x 9' AND 12' x 9' SEWERS

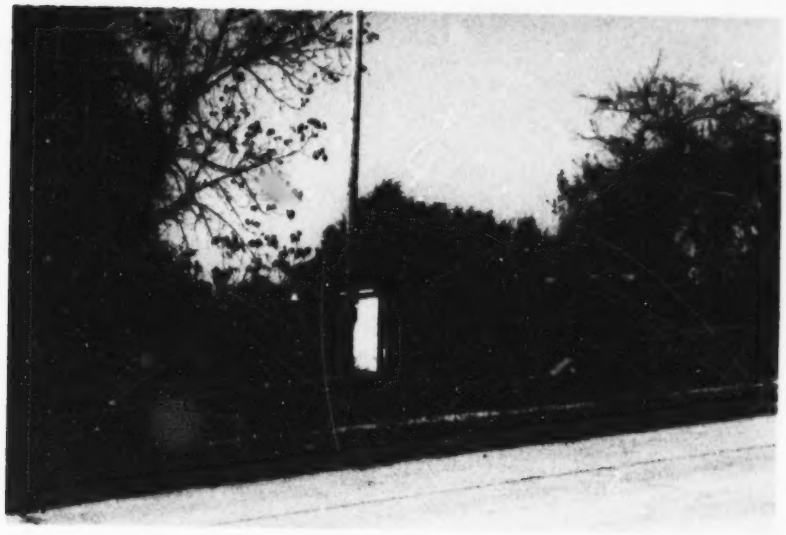

Figure 4-31.
OUTLET MONITORING STATION ON PROSSER STREET

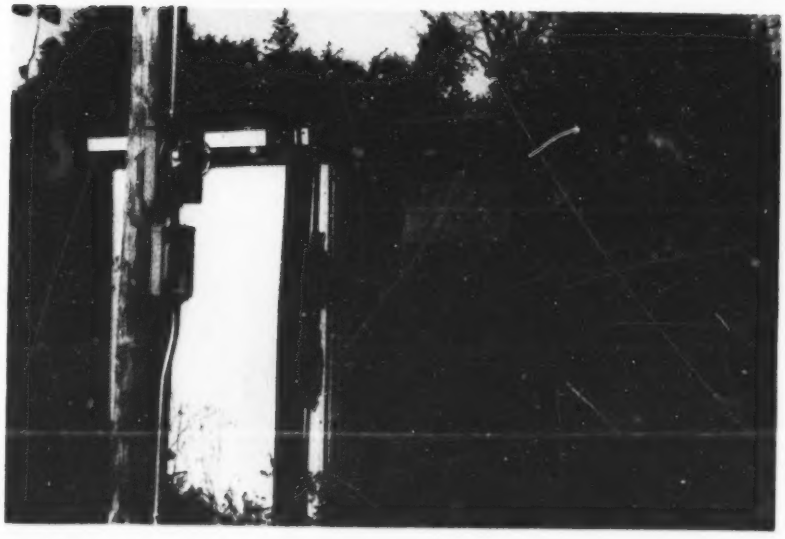

Figure 4-32.
OUTLET MONITORING STATION AND POWER POLE

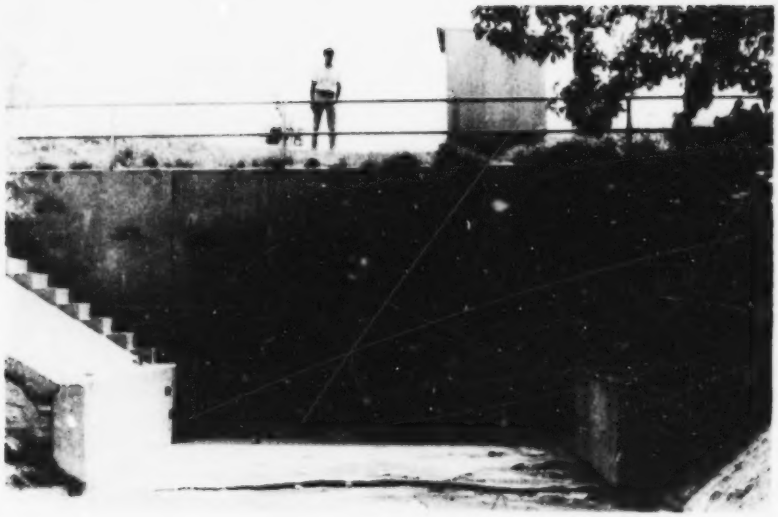

Figure 4-33.
STORM WATER OUTFALL FROM THE BLOODY RUN BASIN
AT THE OUTLET MONITORING STATION

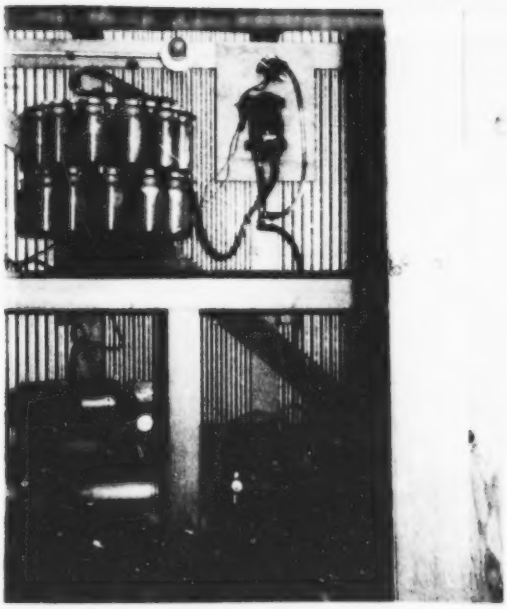

Figure 4-34.
OUTLET MONITORING STATION
FLOW MEASURING AND SAMPLING APPARATUS

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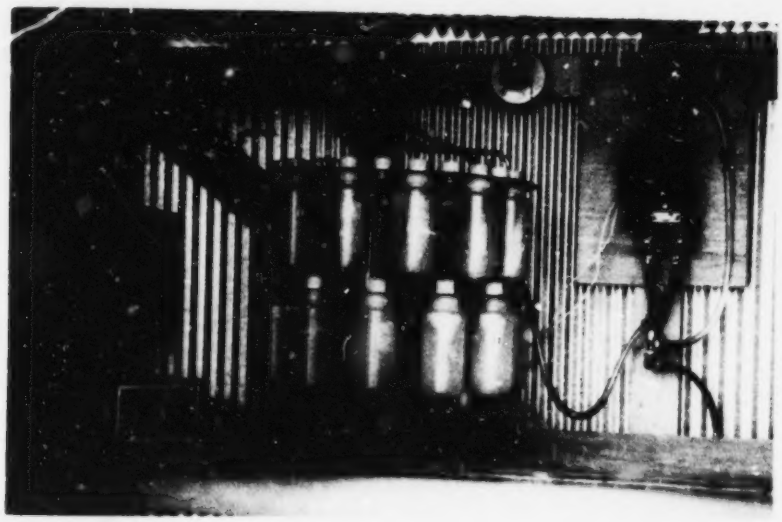

Figure 4-35

OUTLET MONITORING STATION
SEWAGE SAMPLING INSTALLATION
(SENTRY SEQUENTIAL EFFLUENT SAMPLER AND PUMP)

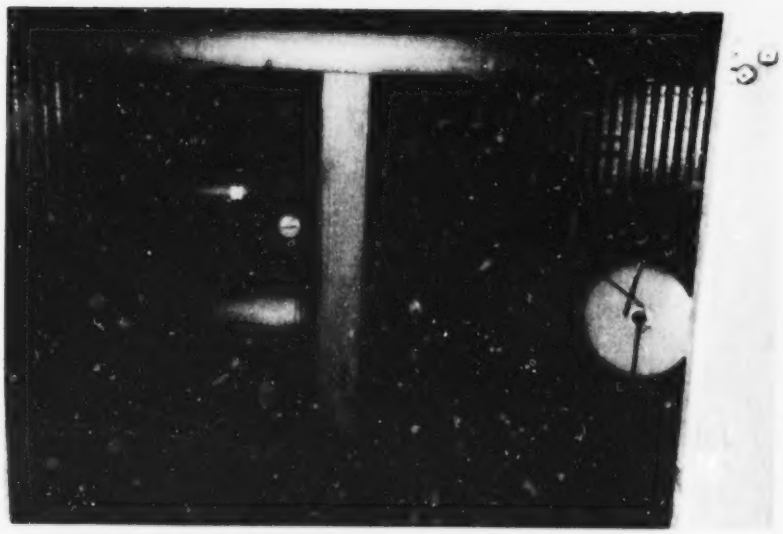

Figure 4-36.

OUTLET MONITORING STATION
FLOW MEASURING INSTALLATION
(AIR-COMPRESSOR, MANOMETER, AND FLOW RECORDER)

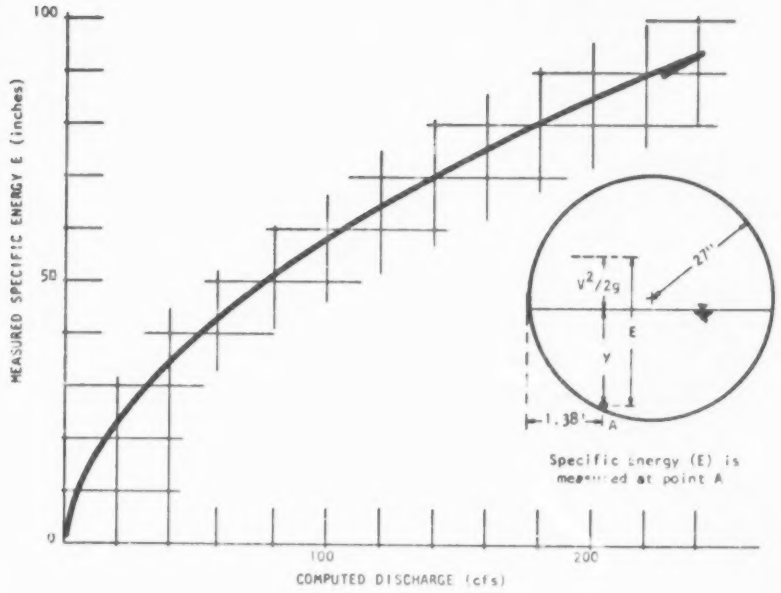

Figure 4-37.

MEASURED SPECIFIC ENERGY VERSUS COMPUTED DISCHARGE
FOR 54" CIRCULAR SEWER WITH SLOPE 0.013 (BANK)

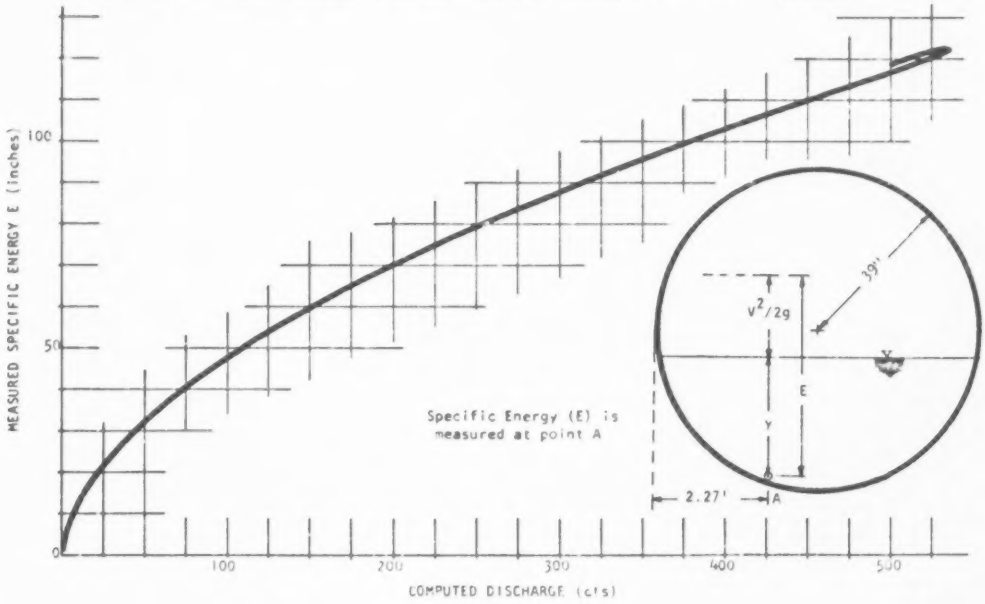

Figure 4-38.

MEASURED SPECIFIC ENERGY VERSUS COMPUTED DISCHARGE
FOR 78" CIRCULAR SEWER WITH SLOPE 0.009 (BANK)

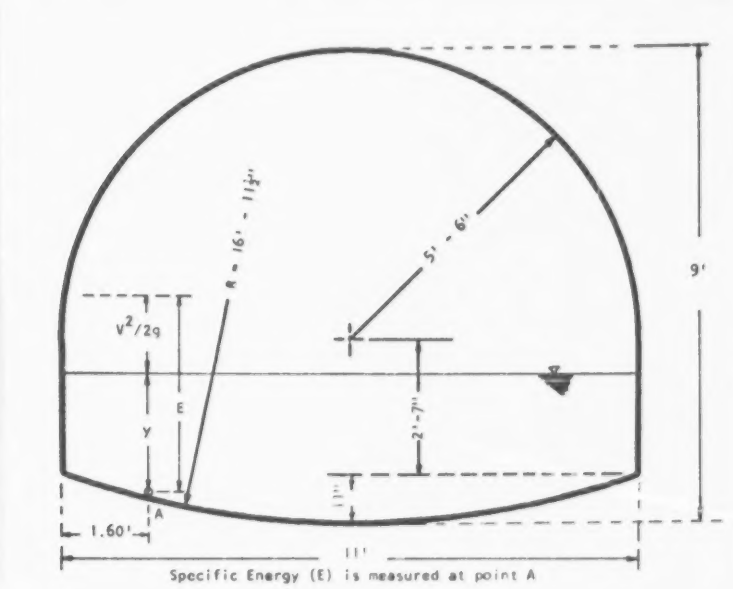

Figure 4-39.

SEMICIRCULAR SEWER CROSS-SECTION 11' x 9'
AT MONITORING STATION LONGVIEW

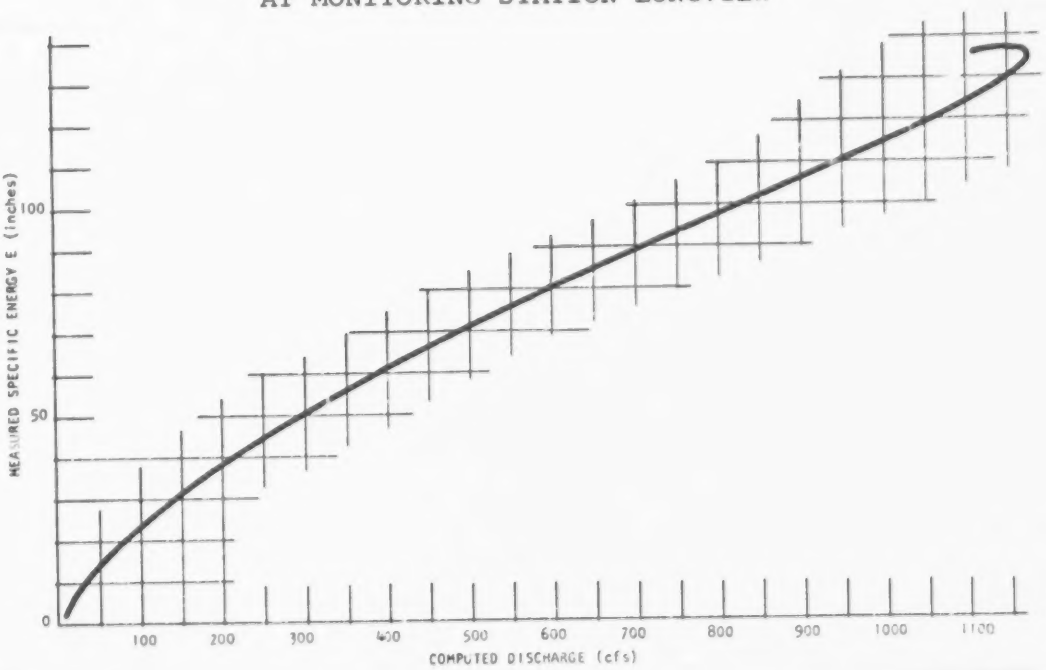

Figure 4-40.

MEASURED SPECIFIC ENERGY VERSUS COMPUTED DISCHARGE
FOR 11' x 9' SEMI-CIRCULAR SEWER WITH SLOPE 0.004 (LONGVIEW)

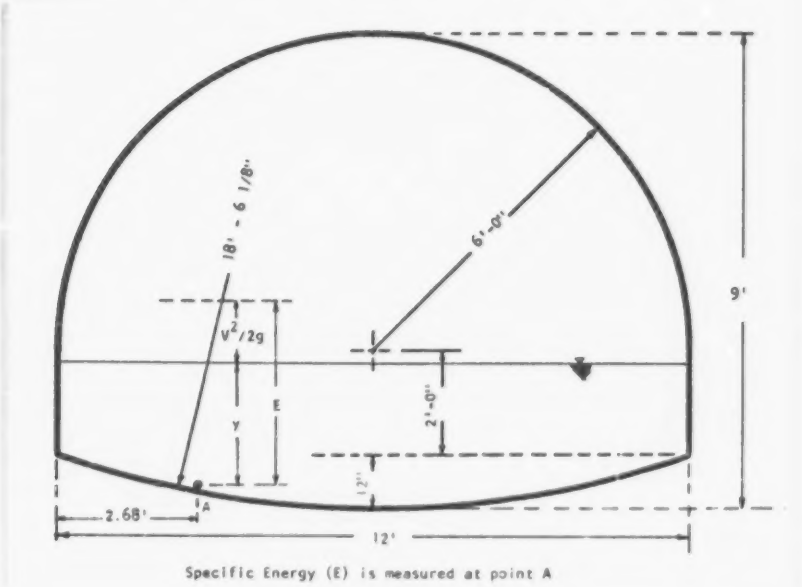

Figure 4-41.

SEMICIRCULAR SEWER CROSS-SECTION 12' x 9'
AT MONITORING STATION LONGVIEW

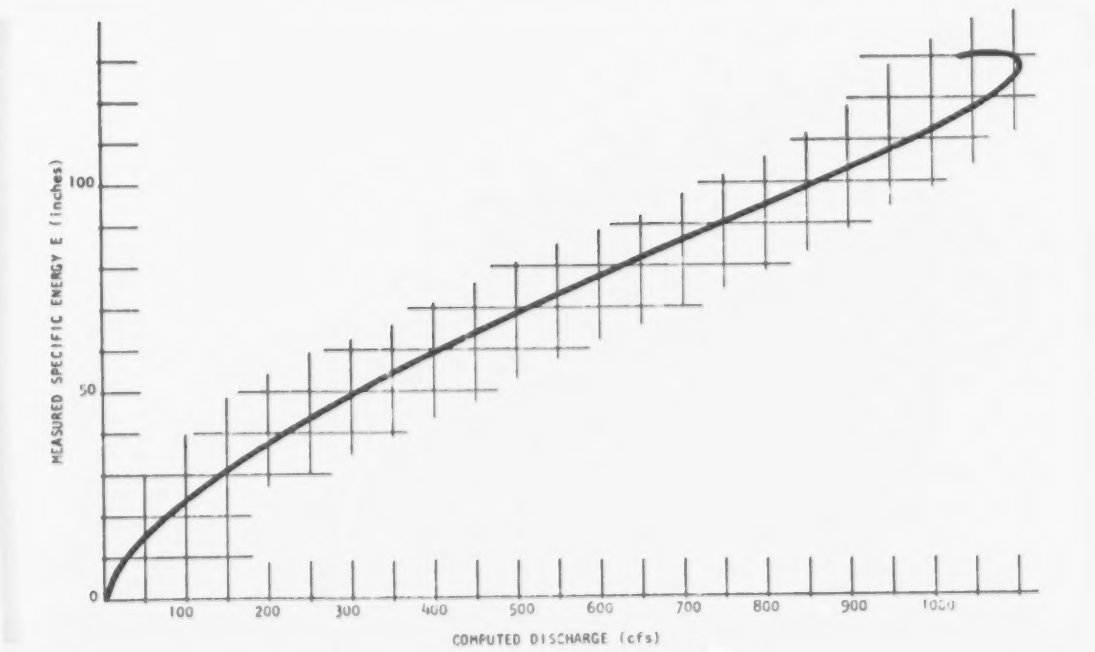

Figure 4-42.

MEASURED SPECIFIC ENERGY VERSUS COMPUTED DISCHARGE
FOR 12' x 9' SEMI-CIRCULAR SEWER WITH SLOPE 0.003 (LONGVIEW)

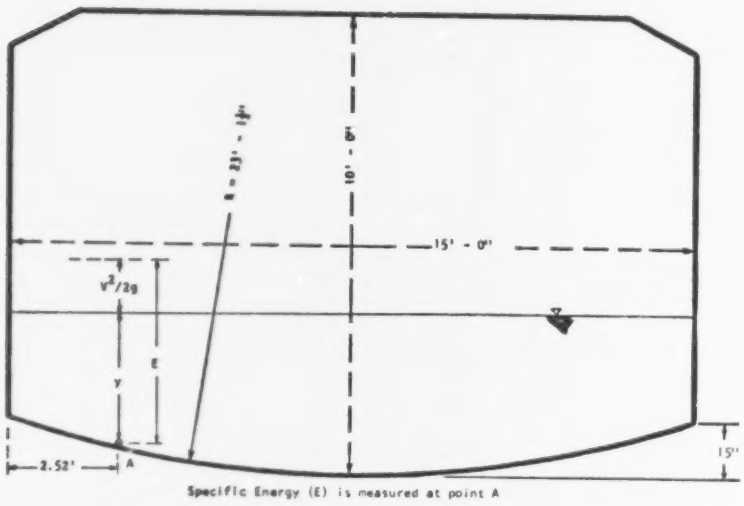

Figure 4-43.

RECTANGULAR SEWER CROSS-SECTION 15' x 10'

AT MONITORING STATION OUTLET

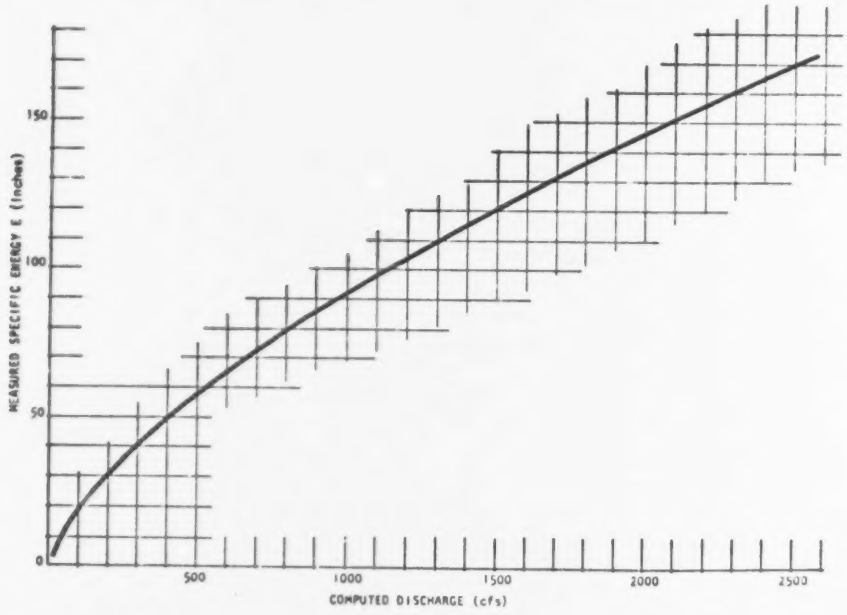

Figure 4-44.

MEASURED SPECIFIC ENERGY VERSUS COMPUTED DISCHARGE

FOR 10' x 15' RECTANGULAR SEWER WITH SLOPE 0.003 (OUTLET)

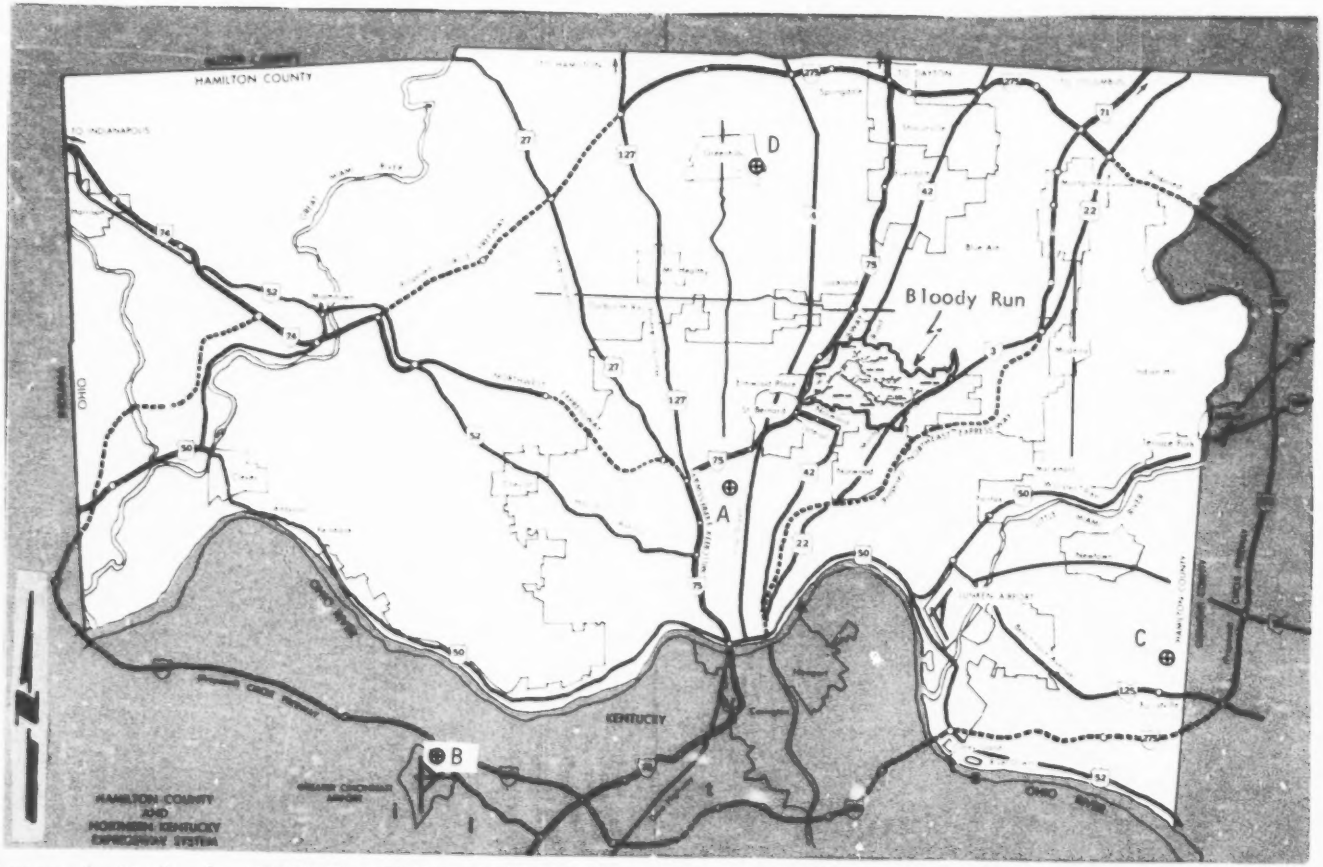

Figure 4-45.U. S. WEATHER BUREAU RAINGAGE STATIONS SURROUNDING THE BLOODY RUN SEWER WATERSHED

A: ABBE OBSERVATORY
B: GREATER CINCINNATI AIRPORT
C: CHERRY GROVE
D: WEST FORK DAM

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Table 4-2. HOURLY PRECIPITATION*
MAY 1970

CINCINNATI, OHIO - ABBE OBSERVATORY STATION

HOURLY PRECIPITATION (Water equivalent in inches)

Day	A M Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	P M Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	Day
1																.08	T			.01	T	.01	.04		1
2	.02	.01			.02	.02	.03	.02	.01	T															2
3																	T								3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10											T	T	.01							.09	.01	T			10
11																		.02	.61	.11					11
12													T		T	T									12
13																						T			13
14																									14
15	.10	T	.01					T	T			T	.02	T							.09	T			15
16														T											16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24		.62																							24
25		.01														.03	.04	.05	.19	.10	T	T			25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31

BOONE COUNTY, KENTUCKY - GREATER CINCINNATI AIRPORT STATION

HOURLY PRECIPITATION (Water equivalent in inches)

Day	A M Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	P M Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	Day
1															T	.20				T	T	.01	.04		1
2	.01	.01	T		.01	.04	.01	.03	.01	T															2
3																	T								3
4																									4
5																									5
6																									6
7																									7
8																									8
9											T	.01	T							.13	.03				9
10																				.01	T				10
11																	T								11
12													.01	T	.01							.02	T		12
13																						T			13
14																									14
15	.15							T	T			T	.01	T						.01	.07	.01	T	.10	15
16									T																16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24															T	.02	T	.38	.01	.62					24
25																									25
26																									26
27																									27
28											T	T													28
29																									29
30																									30
31	T							T	T	T	T														31

*Data from the Department of Commerce

**T indicates trace

Table 4-2. HOURLY PRECIPITATION*
JUNE 1970

CINCINNATI, OHIO - ABBE OBSERVATORY STATION

HOURLY PRECIPITATION (Water equivalent in inches)

DAY	A M Hour ending at												P M Hour ending at												DAY
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1			T	T	T											.01	.20	.01							1
2													T									.40	.14	T	2
3												.01	.09	.03	.01	T	.01	.02	T	.01	.01	.02	.02	.02	3
4	.02	.02	.09	.14	.1-	.07	.03	T	.01	T													.06	1.04	4
5	.16	.01	.01									.01									.21	.02	.20	.04	5
6							T	T	T																6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13							.03	.16	.09	T															13
14																									14
15			.16	T																					15
16															T										16
17																									17
18																									18
19														T											19
20																									20
21						.13																			21
22																									22
23																									23
24																									24
25						.01						T													25
26												.16				.01	.60	T		.31	.01				26
27																									27
28																									28
29																									29
30																									30

BOONE COUNTY, KENTUCKY - GREATER CINCINNATI AIRPORT STATION

HOURLY PRECIPITATION (Water equivalent in inches)

DAY	A M Hour ending at												P M Hour ending at												DAY
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1	T	T				T										T	.41	T							1
2																	.05	T			.05	.36	.12	.01	2
3	T	T	T	T	T	T						.04	.37	.03	T	T	.01	.01	T	.01	.02	.02	.03	.02	3
4	.01	.03	.01	.05	.08	.04	T	T	T	T													.38	.87	4
5	.13	.01											T		T					T	.33	.01	.04	.05	5
6	T					.01																			6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13							.02	.28	1.23	T															13
14																									14
15		.01	.01	T																					15
16														T	T										16
17																									17
18																									18
19														T											19
20																									20
21						.01																			21
22																									22
23																									23
24																									24
25					T	T																			25
26												T				.06	.45	T		T	T	.02			26
27																									27
28																									28
29																									29
30																									30

*Data from the Department of Commerce

**T indicates trace

Table 4-2. HOURLY PRECIPITATION*
JULY 1970

CINCINNATI, OHIO - ABBE OBSERVATORY STATION

HOURLY PRECIPITATION (water equivalent in inches)

Day	A.M. Hour ending at												P.M. Hour ending at											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1																								
2																								
3										T	.01													
4	T																							
5																								
6																								
7																								
8					T								.01	T	.38	.02	.70	T				T	.14	
9													.02	.04			.27	.11						
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19				T	T	T											.01	.01	T	.01	.13	.04		T
20	.02					.08	1.02			T														
21																								
22																			T	T	T	T	.01	.01
23	T	.02	.02	T	T	.04	.02	T																
24																								
25																								
26													.01	T	T	T	.01	T	T	T				
27					.01												.01	.04	T					
28																								
29																								
30												.01												
31				.01			.01																	

BOONE COUNTY, KENTUCKY - GREATER CINCINNATI AIRPORT STATION

HOURLY PRECIPITATION (water equivalent in inches)

Day	A.M. Hour ending at												P.M. Hour ending at											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1																								
2															T									
3										.02	.01													
4	T																							
5																								
6																								
7																								
8														T		.09	.05	.17	.35				.05	
9													T	T				.02				T	T	
10																								
11																								
12																								
13																								
14																								
15																		T						
16																								
17																								
18																								
19					T	T												.02		T	.02	.39	.04	
20	.02					.01	.51	T	T															
21																								
22																				T	T	T	.01	.09
23	T	.02	.03	.01	.01	.01	.01	T																
24																								
25												T	T	T	T	T	T	T	T	T	T			
26														T	T			T	.09	T				
27																								
28																								
29																								
30												T												
31		T	.01	.01		.01	.04	T	T															

*Data from the Department of Commerce

**T indicates trace

Table 4-2. HOURLY PRECIPITATION*
AUGUST 1970

CINCINNATI, OHIO - ABBE OBSERVATORY STATION

HOURLY PRECIPITATION (Water equivalent in inches)

Day	A.M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	P.M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	Day
1				.18	.10																				1
2																									2
3								.08	.05	.04	.11	.02		.18											3
4																									4
5																									5
6																									6
7																									7
8																		T	T	T	.01	T		.05	8
9	.01			.06	.10	.01	T	T	T	.01	.01	T	.09	.50	.18	.13	.17	.31	.09	.03	.07	.01	.04	.02	9
10	.02	T	T	T		.01	.83	.02	T	T															10
11																									11
12														.25	.02										12
13																	T	.45							13
14																									14
15																									15
16																T	.01								16
17																									17
18																									18
19			T	T										.04	.01	T									19
20	T	T	T																	T					20
21																									21
22																.01	.80	.02					.01	T	22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30													T	T											30
31																									31

BOONE COUNTY, KENTUCKY - GREATER CINCINNATI AIRPORT STATION

HOURLY PRECIPITATION (Water equivalent in inches)

Day	A.M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	P.M. Hour ending at 1	2	3	4	5	6	7	8	9	10	11	12	Day
1																									1
2						T	T			.01	.10	.01		.24	T										2
3																									3
4																									4
5																									5
6																									6
7																		T	.01	.02	.01	T	T	T	7
8	T	T	.01	.24	.12	T	.01	T		.08	.01	.01	T	T	.03	T	.06	T	T	T	T	.01	.04	.14	.07	8
9	.01	T	T	T	T	T	T	T		T															9
10												.02	T			.12	.02								10
11															.02										11
12																	T	T							12
13							T	.02		T															13
14																									14
15																									15
16																									16
17																									17
18			T																						18
19			T										T	.40	.02	T	T					T	T		19
20	T	T	T																.01	.42					20
21																									21
22					T	T	T	T								.05	.50	T					T	T	22
23																									23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30												T	.10	.02											30
31																									31

*Data from the Department of Commerce

**T indicates trace

Table 4-2. HOURLY PRECIPITATION*
SEPTEMBER 1970

CINCINNATI, OHIO - ABBE OBSERVATORY STATION

HOURLY PRECIPITATION (Water equivalent in inches)

Date	A.M. Hour ending at												P.M. Hour ending at												Date
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1																									1
2																									2
3									T						T		T	T	.22	T		.01			3
4															T									.09	4
5	.05																								5
6																									6
7	.01	T						T	T																7
8																.29	.26								8
9																									9
10																									10
11																									11
12																									12
13																						.34	.01		13
14					.02																				14
15																									15
16																									16
17																									17
18											.02														18
19																									19
20																									20
21															T	T									21
22																					.46	.03			22
23																									23
24																		.30							24
25							.18	.39	.07	.01	T														25
26															.25	.02	.02	T	.01	T	.07	.08	.04	.02	26
27	.01	.02	.04	.01																					27
28																									28
29																									29
30																									30

BOONE COUNTY, KENTUCKY - GREATER CINCINNATI AIRPORT STATION

HOURLY PRECIPITATION (Water equivalent in inches)

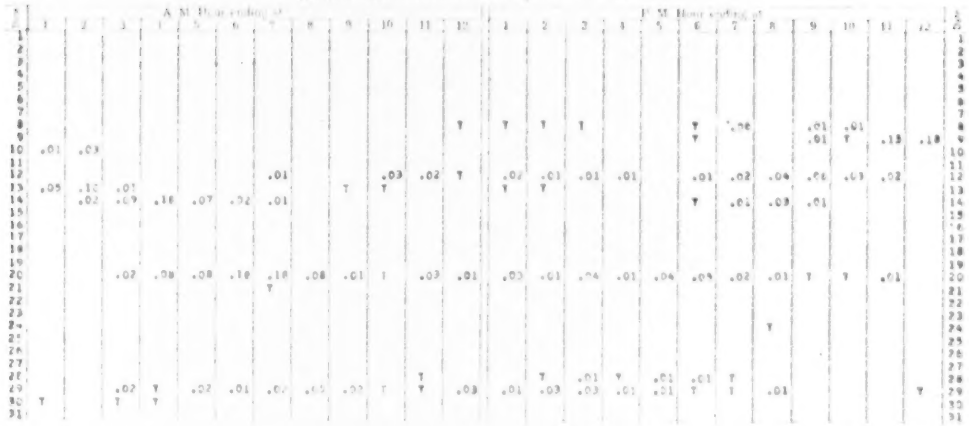
Date	A.M. Hour ending at												P.M. Hour ending at												Date
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1																		T							1
2																									2
3								T	.01						T		T	.05	.21		.03	T			3
4															T	T							.01	.13	4
5	.01	T																		T	T				5
6	T	T					.01	.08	.02							T	.54							T	6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13																						.05	T		13
14					T													.01	.01						14
15																									15
16																									16
17																									17
18										.13	.05		T												18
19																									19
20																									20
21															T	.09									21
22																				T	.40	.01		.01	22
23	T																.13	.34							23
24																									24
25							.44	.19	.09	T															25
26	T	.03	.03	.02										T	.52	.04	.02	.01	T	.01	.04	.05	.03	.02	26
27																									27
28																									28
29																									29
30																									30

*Date from the Department of Commerce

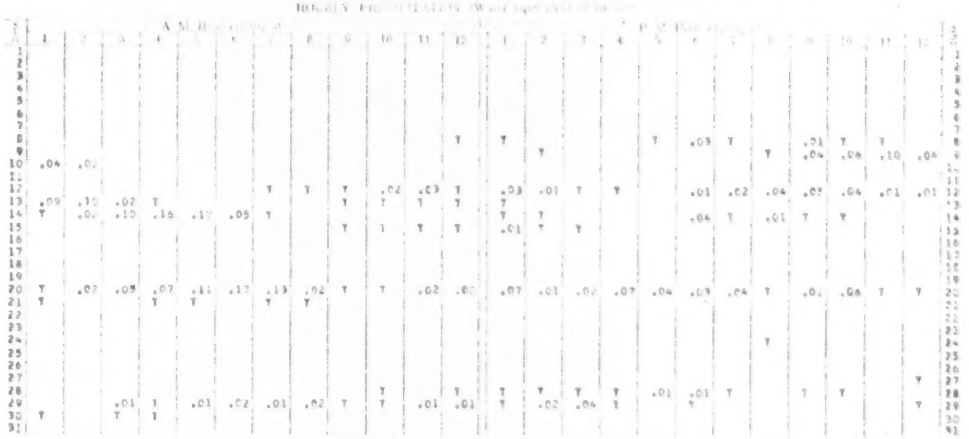
**T indicates trace

Table 4-2. HOURLY PRECIPITATION*
OCTOBER 1970

CINCINNATI, OHIO - ABBE OBSERVATORY STATION



BOONE COUNTY, KENTUCKY - GREATER CINCINNATI AIRPORT



*Date from the Department of Commerce

**T indicates trace

SECTION 5

BLOODY RUN COMBINED SEWER SYSTEM

DRY WEATHER FLOW QUANTITY AND QUALITY DATA

In addition to the five storm flow monitoring stations which are also able to sample and measure the dry weather flow automatically at any time, six dry weather flow stations were set up temporarily during the summer of 1970 and located as shown in Figures 5-1 and 5-2.

Flow quantity and quality data obtained from these stations are presented on Table 5-1. At the end of this table, the detailed location of each sampling point is given.

During 1952 the Department of Sewers of the City of Cincinnati estimated the average dry weather flow at the outlet of the Bloody Run Combined Sewer System at 6.81 mgd. The quality of the dry weather flow has been estimated at an average BOD of 425 mg/l and average suspended solids of 318 mg/l.

During the week of April 19, 1971, the Department of Sewers of the City of Cincinnati performed very detailed dry weather flow quantity measurements. Starting at 8:00 AM on Monday, April 19, 1971, measurements of the discharge at the outlet of the Bloody Run Sewer Watershed on Prosser Street were performed at intervals of 10 minutes for 24 hours a day through 7:00 AM on Saturday, April 24, 1971, using a 30" rectangular weir (Table 5-2).

Valuable information was also obtained concerning the quality of the dry weather flow. The temperature of the dry weather flow was monitored each hour and the color of the water changing periodically due to the discharge of various chemicals from industries upstream was reported (Table 5-2). For each day of the week values of suspended solids, BOD, suspended volatile solids, total solids, COD, pH, and grease were obtained for a 24-hour composite sample (Table 5-3). The weekly average value of BOD was found equal to 587 mg/l and the average value of suspended solids was found equal to 462 mg/l.

It is worth noticing that the urbanization progress of the Bloody Run Sewer Watershed during the last 19 years has resulted in an increase of about 40% for BOD and of about 45% for suspended solids. However, the average dry weather flow did not increase considerably during this period.

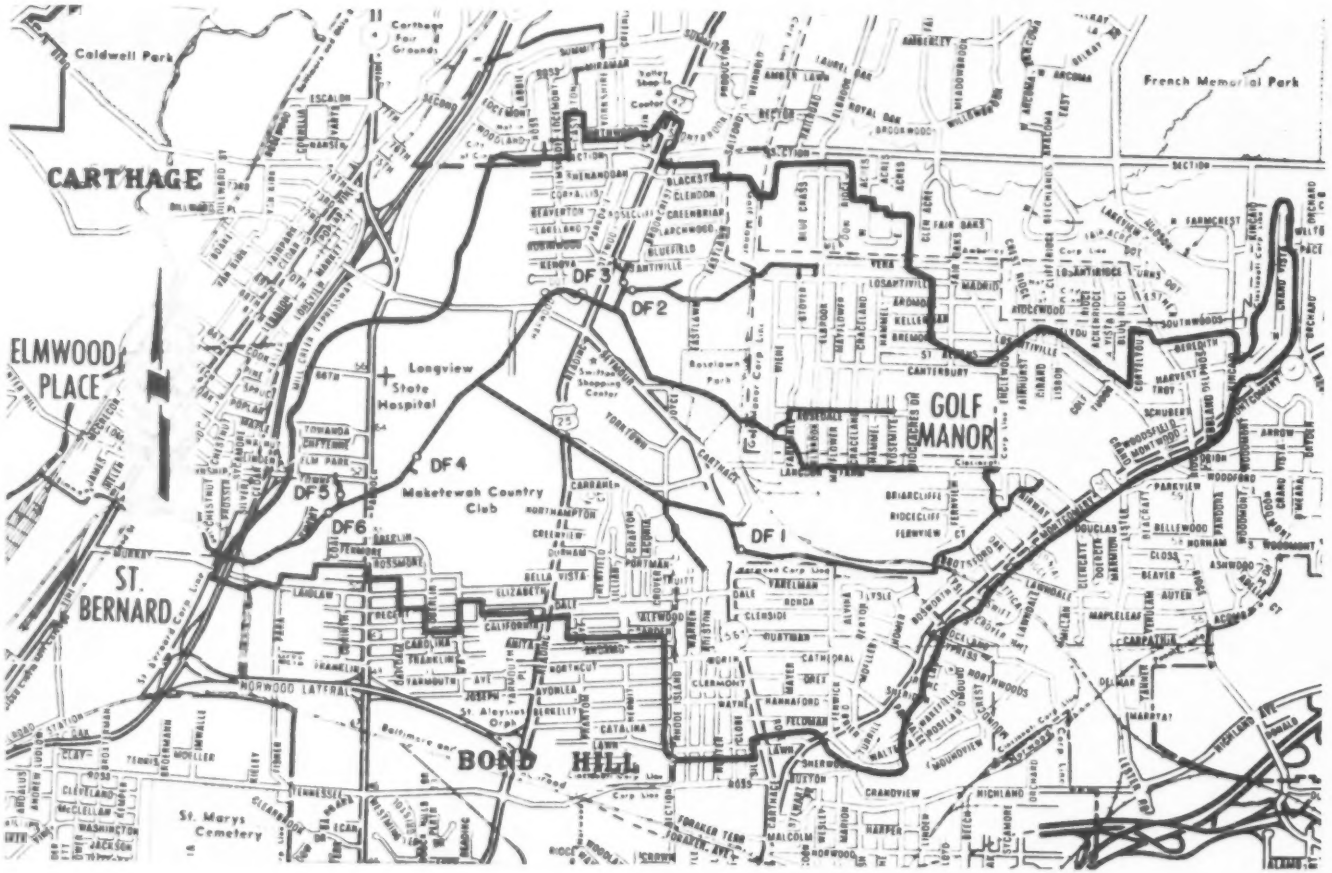


Figure 5-1. BLOODY RUN SEWER WATERSHED. DRY WEATHER FLOW SAMPLING LOCATIONS.

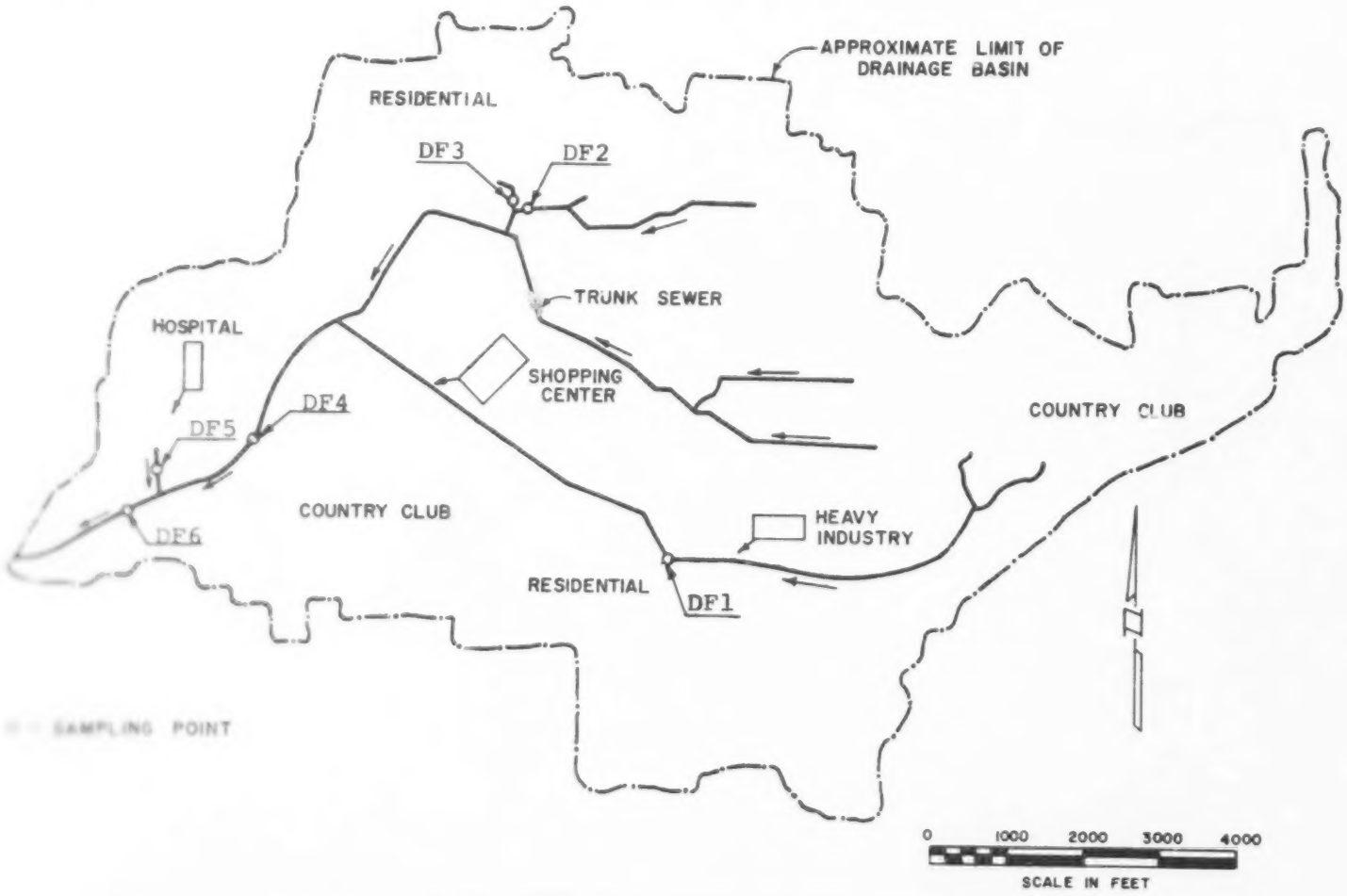


Figure 5-2. BLOODY RUN SEWER WATERSHED. DRY WEATHER FLOW SAMPLING POINTS AND MAJOR LAND USE CLASSIFICATIONS.

Table 5-1. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA

Location*	Date	Time	Discharge (cfs)	Suspended Solids (mg/l)	COD (mg/l)	BOD (mg/l)
DF1 (78")	7/10/70	10:30 am	1.26	472	3229	1300
		1:00 pm	1.10	388	9828	5600
	7/12/70	11:00 am	1.15	112	291	240
	7/13/70	12:00 noon	1.24	178	242	210
	7/14/70	9:00 am	2.51	118	1587	980
		2:05 pm	1.53	234	400	360
	7/15/70	9:15 am	1.50	102	2257	2000
	7/16/70	10:30 am	2.20	176	1743	1530
		1:00 pm	1.13	162	920	800
DF2 (78")	6/29/70	11:30 am	1.05	290	181	160
	6/30/70	9:15 am	1.18	224	381	390
		1:45 pm	1.10	152	398	320
	7/01/70	9:00 am	0.85	394	543	420
		1:40 pm	0.58	198	495	410
	7/02/70	9:30 am	0.81	162	582	--
		2:00 pm	0.99	138	444	--
DF3 (54")	6/29/70	11:30 am	0.52	176	398	385
	6/30/70	9:15 am	0.55	470	398	--
		1:45 pm	0.65	284	362	380
	7/01/70	9:00 am	0.49	308	343	350
		1:40 pm	0.53	126	--	--
	7/02/70	9:30 am	0.56	118	160	--
		2:00 pm	0.50	130	269	--
DF4	6/29/70	2:45 pm	13.7	184	1629	450
(10' x 15')	6/30/70	1:15 pm	15.6	220	1882	700
		2:40 pm	18.5	216	1520	600
	7/01/70	9:45 am	13.8	303	1158	720
		2:30 pm	15.6	228	757	--
	7/02/70	10:20 am	14.9	482	2519	--
		3:00 pm	16.7	220	1340	--
DF5 (54")	7/10/70	10:50 am	0.50	256	364	160
	7/13/70	11:30 am	0.50	274	261	150
		1:15 pm	0.50	150	546	290
	7/14/70	9:30 am	0.50	142	463	210
		1:30 pm	0.50	138	364	440
	7/15/70	9:40 am	0.50	198	3495	260
	7/16/70	10:40 am	0.50	142	562	495
		1:20 pm	0.50	146	350	330

Table 5-1. (continued)

Location*	Date	Time	Discharge (cfs)	Suspended Solids (mg/l)	COD (mg/l)	BOD (mg/l)
DF6 (10' x 15')	7/10/70	11:40 am	14.77	385	2063	1000
		1:30 am	12.13	346	6552	4100
	7/12/70	11:10 am	11.82	174	650	590
	7/13/70	11:30 am	15.01	252	400	180
		1:00 pm	14.50	282	386	220
	7/14/70	9:40 am	15.02	238	815	610
		1:30 pm	12.38	288	466	380
	7/15/70	9:45 am	14.8	168	728	670
	7/16/70	10:20 am	15.12	156	673	596
		1:20 pm	13.85	230	392	374

*Locations where the dry weather flow measurements have been taken

DF1 At Seymour Avenue about 300 yards southeast from Cincinnati Gardens and about 300 yards downstream from Hilton Davis Chemical Company.

DF2, DF3 At the location of Monitoring Station "BANK"

DF4 At the golf course of Maketawah Country Club.

DF5 About 75 yards from the corner of Coad and Lois Drive.

DF6 About 100 yards from the corner of Coad and Lois Drive.

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
MONDAY, APRIL 19, 1971

Time	Flow Rate in cfs	Temp.	Color
800	5.079		
810	5.079		
820	5.493		
830	5.903		
840	6.333		
850	6.771		
900	6.990	6°C	Cloudy
910	6.990		
920	6.990		
930	6.990		
940	6.990		
950	6.990		
1000	6.990	5°C	
1010	7.656		
1020	7.656		
1030	7.883		
1040	7.883		
1050	7.883		
1100	8.114	5°C	Green
1110	8.333		
1120	8.333		
1130	8.333		
1140	8.114		
1150	8.114		
1200	8.114	4.5°C	
1210	8.566		
1220	8.333		
1230	8.083		
1240	8.114		
1250	8.333		
1300	8.114	4.5°C	Dark Green
1310	8.114		
1320	8.114		
1330	8.114		
1340	8.114		
1350	8.114		
1400	8.114	4.5°C	
1410	7.883		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
MONDAY, APRIL 19, 1971

Time	Flow Rate in cfs	Temp.	Color
1420	8.114		
1430	8.114		
1440	8.114		
1450	8.114		
1500	8.114	4.5°C	Light Green
1510	8.114		
1520	8.114		
1530	8.114		
1540	8.114		
1550	8.333		
1600	8.114	4.5°C	Green
1610	7.883		
1620	7.883		
1630	7.883		
1640	7.883		
1650	7.883		
1700	7.883	4.5°C	
1710	7.883		
1720	8.114		
1730	8.114		
1740	8.114		
1750	8.114		
1800	8.114	4.5°C	Green
1810	8.333		
1820	8.566		
1830	8.798		
1840	8.798		
1850	9.036		
1900	9.273	5°C	
1910	8.798		
1920	8.333		
1930	7.656		
1940	7.547		
1950	7.547		
2000	7.428	6°C	Green
2010	7.428		
2020	7.428		
2030	7.547		
2040	7.547		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
MONDAY, APRIL 19, 1971

Time	Flow Rate in cfs	Temp.	Color
2050	7.547		
2100	7.547	7°C	Green
2110	7.428		
2120	7.428		
2130	7.547		
2140	7.547		
2150	7.547		
2200	7.428	6.5°C	Green
2210	7.204		
2220	7.204		
2230	6.990		
2240	6.990		
2250	6.990		
2300	6.334	5°C	
2310	6.118		
2320	6.118		
2330	6.118		
2340	5.904		
2350	6.118		
2400	6.118	3.5°C	

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
TUESDAY, APRIL 20, 1971

Time	Flow Rate in cfs	Temp.	Color
0010	5.694		
0020	5.493		
0030	5.493		
0040	5.287		
0050	5.079		
0100	4.877	3.5°C	
0110	4.781		
0120	4.676		
0130	4.487		
0140	4.487		
0150	4.487		
0200	4.487	3.5°C	
0210	4.487		
0220	4.487		
0230	4.487		
0240	4.487		
0250	4.487		
0300	4.487	3°C	
0310	4.487		
0320	4.487		
0330	4.487		
0340	4.292		
0350	4.292		
0400	4.292	2.5°C	
0410	4.292		
0420	4.292		
0430	4.292		
0440	4.292		
0450	4.292		
0500	4.292	2.5°C	
0510	4.292		
0520	4.292		
0530	4.292		
0540	4.292		
0550	4.292		
0600	4.292	3°C	
0610	4.292		
0620	4.292		
0630	4.292		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
TUESDAY, APRIL 20, 1971

Time	Flow Rate in cfs	Temp.	Color
0640	4.487		
0650	4.487		
0700	4.877		
0710	4.877		
0720	5.079		
0730	5.079		
0740	5.903		
0750	5.903		
0800	6.333	6°C	Green
0810	6.333		
0820	6.553		
0830	6.771		
0840	6.990		
0850	6.771		
0900	6.990	5°C	
0910	7.204		
0920	7.428		
0930	7.428		
0940	7.656		
0950	7.656		
1000	7.656	5°C	Green
1010	8.114		
1020	8.114		
1030	8.114		
1040	8.114		
1050	8.114		
1100	8.333	4.5°C	
1110	8.333		
1120	8.333		
1130	8.333		
1140	8.333		
1150	8.333		
1200	8.333	4.5°C	Green
1210	8.333		
1220	8.114		
1230	8.114		
1240	8.114		
1250	8.333		
1300	8.333	4.5°C	

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
TUESDAY, APRIL 20, 1971

Time	Flow Rate in cfs	Temp.	Color
1310	11.440		
1320	11.440		
1330	8.566		
1340	8.566		
1350	8.566		
1400	8.566	4.5°C	Green
1410	8.333		
1420	8.333		
1430	8.114		
1440	8.114		
1450	8.114		
1500	8.333	4.5°C	Green
1510	8.333		
1520	8.333		
1530	8.333		
1540	8.114		
1550	7.883		
1600	7.883	4.5°C	Green
1610	8.114		
1620	8.114		
1630	8.114		
1640	8.114		
1650	8.114		
1700	8.114	4.5°C	Green
1710	8.333		
1720	8.333		
1730	8.333		
1740	8.333		
1750	8.114		
1800	7.883	7°C	Green
1810	7.883		
1820	7.883		
1830	7.883		
1840	7.656		
1850	7.656		
1900	7.883	7°C	
1910	8.114		
1920	8.114		
1930	8.114		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
TUESDAY, APRIL 20, 1971

Time	Flow Rate in cfs	Temp.	Color
1940	8.114		
1950	8.114		
2000	7.883	6°C	
2010	7.883		
2020	7.656		
2030	7.656		
2040	7.656		
2050	7.656		
2100	7.883	6°C	Green
2110	7.547		
2120	7.547		
2130	7.547		
2140	7.547		
2150	7.428		
2200	7.428	5°C	Gray
2210	7.428		
2220	7.428		
2230	7.204		
2240	7.204		
2250	7.204		
2300	6.771	4°C	
2310	6.771		
2320	6.333		
2330	6.771		
2340	6.990		
2350	6.553		
2400	6.118	3.5°C	

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
WEDNESDAY, APRIL 21, 1971

Time	Flow Rate in cfs	Temp.	Color
0010	6.118		
0020	6.118		
0030	5.903		
0040	5.694		
0050	5.493		
0100	5.287	3.5°C	
0110	5.287		
0120	5.287		
0130	5.079		
0140	5.079		
0150	5.287		
0200	5.079	2.5°C	
0210	4.877		
0220	4.487		
0230	4.292		
0240	4.292		
0250	4.292		
0300	4.292	2.5°C	
0310	4.292		
0320	4.292		
0330	4.292		
0340	4.292		
0350	4.292		
0400	4.292	2.5°C	
0410	4.292		
0420	4.292		
0430	4.292		
0440	4.292		
0450	4.292		
0500	4.292	3°C	
0510	4.292		
0520	4.292		
0530	4.292		
0540	4.292		
0550	4.292		
0600	4.292	3°C	
0610	4.292		
0620	4.292		
0630	4.292		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
WEDNESDAY, APRIL 21, 1971

Time	Flow Rate in cfs	Temp.	Color
0640	4.292		
0650	4.487		
0700	4.676		
0710	5.079		
0720	5.694		
0730	5.694		
0740	5.903		
0750	6.333		
0800	6.771	6°C	Green
0810	6.771		
0820	7.204		
0830	7.204		
0840	7.656		
0850	7.883		
0900	7.883	5°C	
0910	7.883		
0920	7.883		
0930	7.883		
0940	7.883		
0950	7.656		
1000	7.656	5°C	Green
1010	7.656		
1020	7.883		
1030	7.883		
1040	7.883		
1050	7.883		
1100	7.883	4.5°C	
1110	7.883		
1120	8.114		
1130	8.114		
1140	8.114		
1150	8.114		
1200	8.114	4.5°C	
1210	8.114		
1220	8.114		
1230	8.114		
1240	8.114		
1250	8.566		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
WEDNESDAY, APRIL 21, 1971

Time	Flow Rate in cfs	Temp.	Color
1300	10.466	4.5°C	Green
1310	8.333		
1320	8.114		
1330	8.114		
1340	8.114		
1350	8.114		
1400	8.114	4.5°C	
1410	8.114		
1420	8.114		
1430	9.036		
1440	11.194		
1450	11.440		
1500	8.566	5.5°C	Green
1510	8.566		
1520	8.566		
1530	8.333		
1540	8.333		
1550	8.114		
1600	7.883	6.5°C	
1610	7.883		
1620	7.883		
1630	7.656		
1640	7.656		
1650	7.656		
1700	8.114	6.5°C	Green
1710	8.114		
1720	8.114		
1730	8.114		
1740	7.883		
1750	7.883		
1800	8.114	5.5°C	Green
1810	8.333		
1820	8.333		
1830	8.333		
1840	8.114		
1850	8.114		
1900	7.883	4.5°C	Green
1910	7.656		
1920	7.656		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
WEDNESDAY, APRIL 21, 1971

Time	Flow Rate in cfs	Temp.	Color
1930	7.883		
1940	7.883		
1950	7.883		
2000	7.883	5°C	Green
2010	8.114		
2020	8.114		
2030	7.883		
2040	7.883		
2050	7.883		
2100	7.547	5°C	Green
2110	7.547		
2120	7.428		
2130	7.428		
2140	7.428		
2150	7.547		
2200	7.428	5°C	Green
2210	7.428		
2220	7.428		
2230	7.428		
2240	7.547		
2250	7.547		
2300	6.553	4.5°C	
2310	6.333		
2320	6.771		
2330	6.333		
2340	6.118		
2350	5.903		
2400	5.903	4.5°C	

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
THURSDAY, APRIL 22, 1971

Time	Flow Rate in cfs	Temp.	Color
0010	5.694		
0020	5.903		
0030	5.694		
0040	5.493		
0050	5.903		
0100	5.493	3.5°C	
0110	5.287		
0120	5.287		
0130	5.079		
0140	4.676		
0150	4.487		
0200	4.487	3°C	
0210	4.487		
0220	4.487		
0230	4.292		
0240	4.292		
0250	4.292		
0300	4.292	3°C	
0310	4.292		
0320	4.292		
0330	4.292		
0340	4.292		
0350	4.292		
0400	4.292	3.5°C	
0410	4.292		
0420	4.292		
0430	4.292		
0440	4.292		
0450	4.292		
0500	4.292	3.5°C	
0510	4.292		
0520	4.292		
0530	4.292		
0540	4.292		
0550	4.292		
0600	4.292	3°C	
0610	4.292		
0620	4.292		
0630	4.482		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
THURSDAY, APRIL 22, 1971

Time	Flow Rate in cfs	Temp.	Color
0640	4.487		
0650	4.487		
0700	4.676		
0710	4.676		
0720	5.493		
0730	5.493		
0740	5.903		
0750	6.333		
0800	6.333	6°C	Green
0810	6.771		
0820	6.771		
0830	6.990		
0840	7.428		
0850	7.428		
0900	7.656	5°C	
0910	7.656		
0920	7.883		
0930	7.883		
0940	7.883		
0950	7.883		
1000	7.883	4.5°C	
1010	8.114		
1020	8.114		
1030	8.114		
1040	8.114		
1050	8.333		
1100	8.333	4.5°C	Green
1110	8.333		
1120	8.333		
1130	8.333		
1140	8.333		
1150	8.114		
1200	8.114	4.5°C	
1210	8.114		
1220	8.114		
1230	8.114		
1240	8.114		
1250	8.114		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
THURSDAY, APRIL 22, 1971

Time	Flow Rate in cfs	Temp.	Color
1300	8.333	4°C	Green
1310	8.333		
1320	8.333		
1330	8.333		
1340	8.114		
1350	8.114		
1400	8.114	4°C	
1410	8.114		
1420	8.114		
1430	8.114		
1440	8.114		
1450	8.114		
1500	8.333	5.5°C	
1510	8.333		
1520	8.333		
153)	8.333		
154(	8.333		
1550	8.114		
1600	7.883	5.5°C	
1610	7.883		
1620	7.883		
1630	8.114		
1640	8.114		
1650	8.114		
1700	8.114	6°C	Green
1710	9.512		
1720	9.983		
1730	10.466		
1740	10.466		
1750	10.466		
1800	9.983	6°C	Green
1810	9.512		
1820	9.036		
1830	8.566		
1840	8.333		
1850	8.114		
1900	8.566	6°C	
1910	8.333		
1920	8.114		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
THURSDAY, APRIL 22, 1971

Time	Flow Rate in cfs	Temp.	Color
1930	8.114		
1940	7.883		
1950	7.883		
2000	7.883	4.5°C	Green
2010	7.883		
2020	7.883		
2030	7.883		
2040	7.656		
2050	7.428		
2100	7.428	5°C	Green
2110	7.428		
2120	7.428		
2130	7.428		
2140	7.428		
2150	7.428		
2200	7.322	5°C	Green
2210	7.322		
2220	7.204		
2230	7.428		
2240	7.547		
2250	7.547		
2300	7.204	5°C	Green
2310	7.204		
2320	6.990		
2330	6.771		
2340	6.771		
2350	6.656		
2400	6.553	5°C	Green

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
FRIDAY, APRIL 23, 1971

Time	Flow Rate in cfs	Temp.	Color
0010	6.438		
0020	6.334		
0030	6.333		
0040	5.903		
0050	5.802		
0100	5.593		
0110	5.384		
0120	5.287		
0130	5.179		
0140	5.079		
0150	5.079		
0200	5.079	5°C	Dark Gray
0210	4.983		
0220	4.877		
0230	4.829		
0240	4.781		
0250	4.676		
0300	4.877	3.5°C	Dark Gray
0310	4.676		
0320	4.581		
0330	4.676		
0340	4.676		
0350	4.581		
0400	4.487	3°C	Green
0410	4.487		
0420	4.384		
0430	4.292		
0440	4.487		
0450	4.676		
0500	4.581	3°C	Green
0510	4.487		
0520	4.385		
0530	4.487		
0540	4.292		
0550	4.190		
0600	4.292	3°C	Green
0610	4.487		
0620	4.487		
0630	4.581		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
FRIDAY, APRIL 23, 1971

Time	Flow Rate in cfs	Temp.	Color
0640	4.581		
0650	4.781		
0700	5.079		
0710	5.179		
0720	5.493		
0730	5.694		
0740	5.903		
0750	6.118		
0800	6.333	6°C	Green
0810	6.333		
0820	6.771		
0830	7.204		
0840	7.204		
0850	7.204		
0900	7.656	5°C	
0910	7.656		
1920	7.656		
0930	7.656		
0940	7.656		
0950	7.883		
1000	7.883	5°C	
1010	7.883		
1020	8.083		
1030	8.083		
1040	8.114		
1050	8.114		
1100	8.114	4.5°C	Green
1110	8.114		
1120	8.333		
1130	8.333		
1140	8.333		
1150	8.333		
1200	8.333	4.5°C	
1210	8.333		
1220	8.333		
1230	8.333		
1240	9.930		
1250	8.798		
1300	8.798	4.5°C	Green

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
FRIDAY, APRIL 23, 1971

Time	Flow Rate in cfs	Temp.	Color
1310	8.798		
1320	9.036		
1330	9.036		
1340	9.036		
1350	9.036		
1400	11.440	4°C	Green
1410	11.440		
1420	9.036		
1430	8.114		
1440	8.114		
1450	8.114		
1500	8.333	5.5°C	Green
1510	8.333		
1520	8.333		
1530	8.333		
1540	8.333		
1550	8.114		
1600	8.114	5.5°C	
1610	8.114		
1620	8.114		
1630	7.883		
1640	7.883		
1650	8.114		
1700	8.333	4.5°C	Green
1710	8.333		
1720	8.333		
1730	8.333		
1740	8.566		
1750	8.566		
1800	8.566	4.5°C	Green
1810	8.798		
1820	8.566		
1330	8.566		
1840	8.333		
1850	8.114		
1900	8.114	3.5°C	Green
1910	8.114		
1920	7.883		
1930	7.883		

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
FRIDAY, APRIL 23, 1971

Time	Flow Rate in cfs	Temp.	Color
1940	7.883		
1950	8.114		
2000	7.656	3.5°C	Green
2010	7.656		
2020	7.883		
2030	7.883		
2040	7.883		
2050	7.547		
2100	7.547	3.5°C	Blue & Green
2110	7.322		
2120	7.204		
2130	7.097		
2140	7.204		
2150	7.322		
2200	7.428	3.5°C	Blue & Green
2210	7.428		
2220	7.428		
2230	7.428		
2240	7.547		
2250	7.547		
2300	6.118	2.5°C	
2310	6.118		
2320	5.903		
2330	5.694		
2340	5.903		
2350	6.016		
2400	5.903	2.5°C	

Table 5-2. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET
SATURDAY, APRIL 24, 1971

Time	Flow Rate in cfs	Temp.	Color
0010	5.493		
0020	5.493		
0030	5.287		
0040	6.333		
0050	6.333		
0100	5.493	2.5°C	
0110	5.079		
0120	4.676		
0130	4.487		
0140	4.487		
0150	4.487		
0200	4.292	3°C	
0210	4.292		
0220	4.292		
0230	4.292		
0240	4.292		
0250	4.292		
0300	4.292	3°C	
0310	4.292		
0320	4.292		
0330	4.292		
0340	4.292		
0350	4.292		
0400	4.292	2.5°C	
0410	4.292		
0420	4.292		
0430	4.292		
0440	4.292		
0450	4.292		
0500	4.292	2.5°C	
0510	4.292		
0520	4.292		
0530	4.292		
0540	4.292		
0550	4.292		
0600	4.292	2.5°C	
0610	4.292		
0620	4.292		
0630	4.292		
0640	4.292		
0650	4.292		

Table 5-3. BLOODY RUN SEWER WATERSHED
DRY WEATHER FLOW DATA FROM
THE OUTLET ON PROSSER STREET

	4/19/71 Mon.	4/20/71 Tues.	4/21/71 Wed.	4/22/71 Thurs.	4/23/71 Fri.
BOD*	348	694	513	832	551
COD*	902	2440	2000	3293	1417
Suspended Solids*	288	520	132	1144	228
Volatile Suspended Solids*	152	328	104	770	138
Total Solids*	3815	5437	6494	6971	5262
Total Volatile Solids*	575	1147	1500	1414	676
pH*	10.2	9.0	6.6	9.2	7.4
Grease*	76	360	81	736	51
Daily Average Discharge in cfs	7.704	6.799	6.868	7.424	6.984
Maximum Flow Rate in cfs	9.273	11.440	11.440	10.465	11.440
Time of Maximum Flow Rate	1900	1310, 1320	1450	1730, 1740, 1750	1400, 1410

*Data obtained from 24-hour composite samples.

SECTION 6

QUANTITY AND QUALITY DATA FROM BLOODY RUN SEWER WATERSHED

This section contains all the data collected at five monitoring stations and three raingages covering the Bloody Run Sewer Watershed, Cincinnati, Ohio. Urban runoff quantity and quality data have been collected for the period of October 29, 1970 to June 28, 1972.

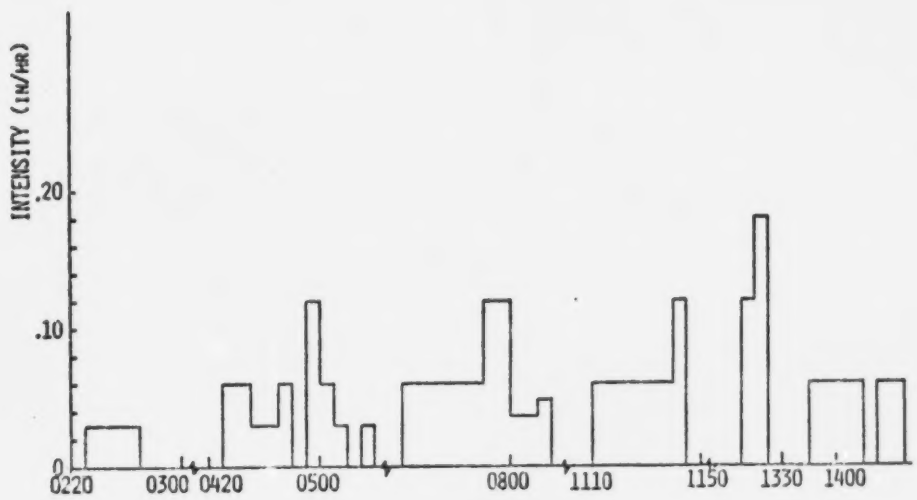
The accumulated data is presented in a chronological arrangement beginning with the rainstorm of October 29, 1970 and continuing to the rainstorm of June 28, 1972. A plot of the rainfall hyetographs from each of the three raingages is given, followed by tabulated data and accompanied by plots of runoff quantity and quality data for each monitoring station.

Laboratory analysis of the samples taken at each station during rainstorms has been carried out according to the standard test procedures in "Standard Methods for the Examination of Water and Waste Water", 12th Edition, 1965.

Below, a list of tests performed and their page numbers in the reference above is given:

(1)	Total Solids (TS)	P. 244
(2)	Suspended Solids (SS)	P. 246
(3)	Volatile Suspended Solids (VSS)	P. 247
(4)	Biological Oxygen Demand (BOD)	P. 415
(5)	Chemical Oxygen Demand (COD)	P. 510
(6)	Chlorides (Cl)	P. 370
(7)	pH	P. 422

Due to the overwhelming number of plots required, after the 12th of September, 1971, all rains have been tabulated continuously for each sampling station until the 28th of June, 1972.



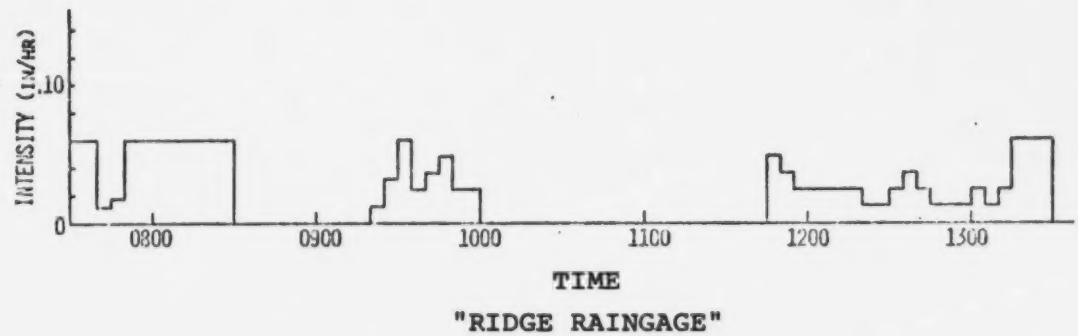


Figure 6-1. RAINFALL OF OCT. 29, 1970
HYETOGRAPHS

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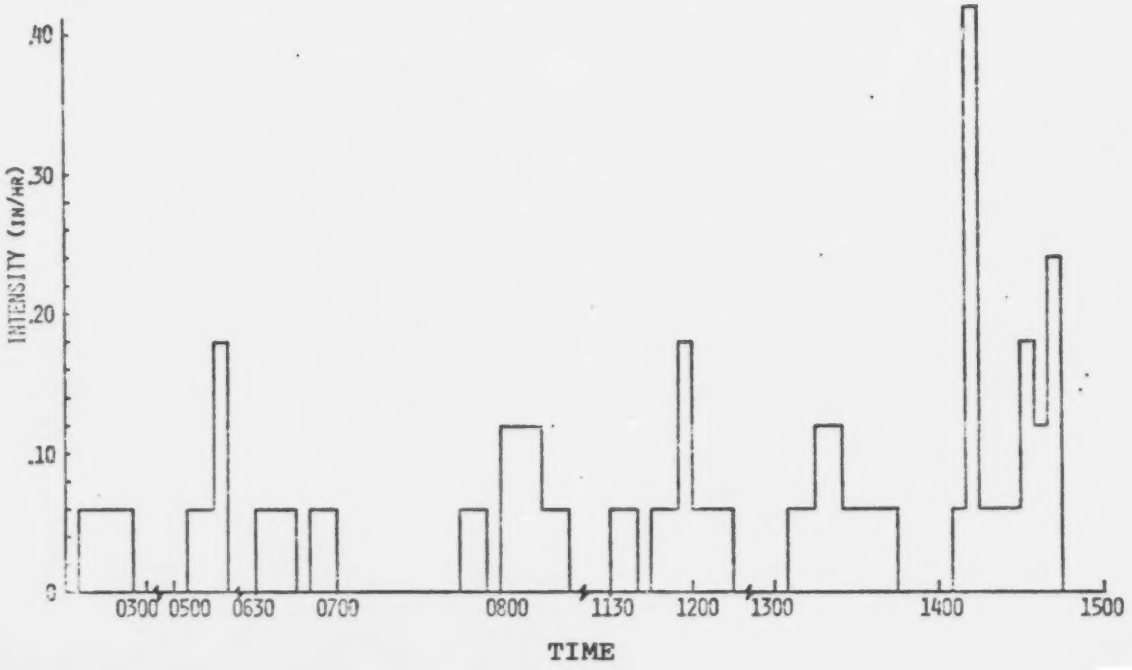
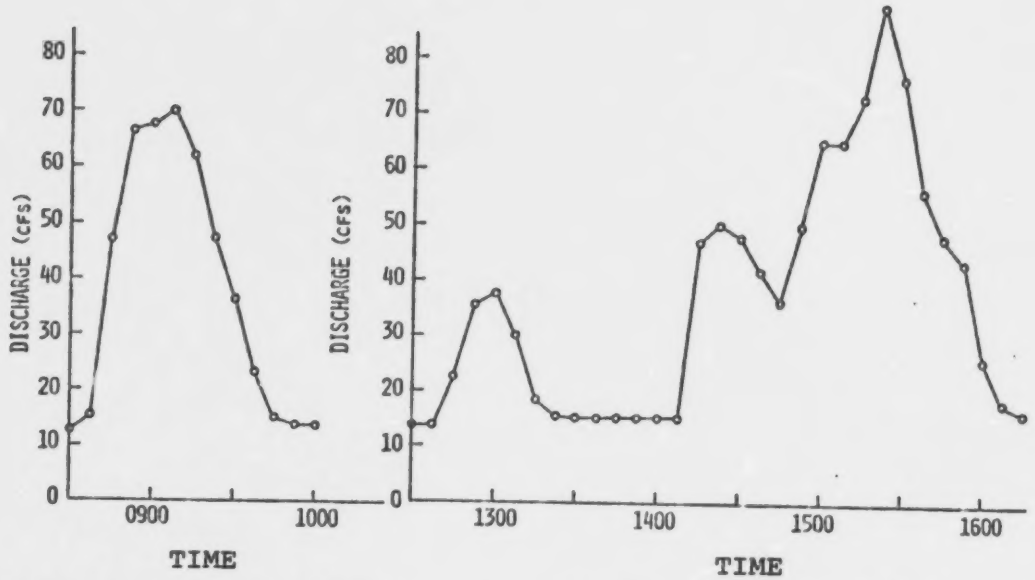
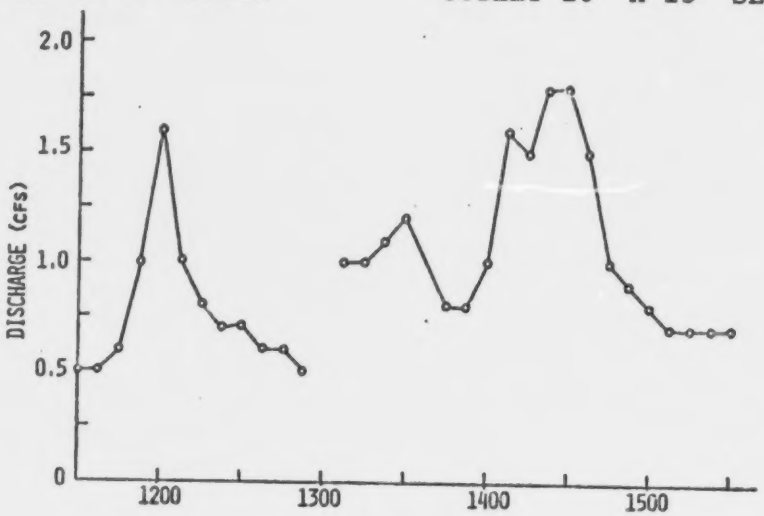


Figure 6-2. RAINFALL OF OCT. 29, 1970
WOODWARD RAINGAGE
HYETOGRAPH



"OUTLET 10' x 15' SEWER"

"OUTLET 10' x 15' SEWER"



"BANK 78" SEWER"

Figure 6-3. QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: OCT. 29, 1970

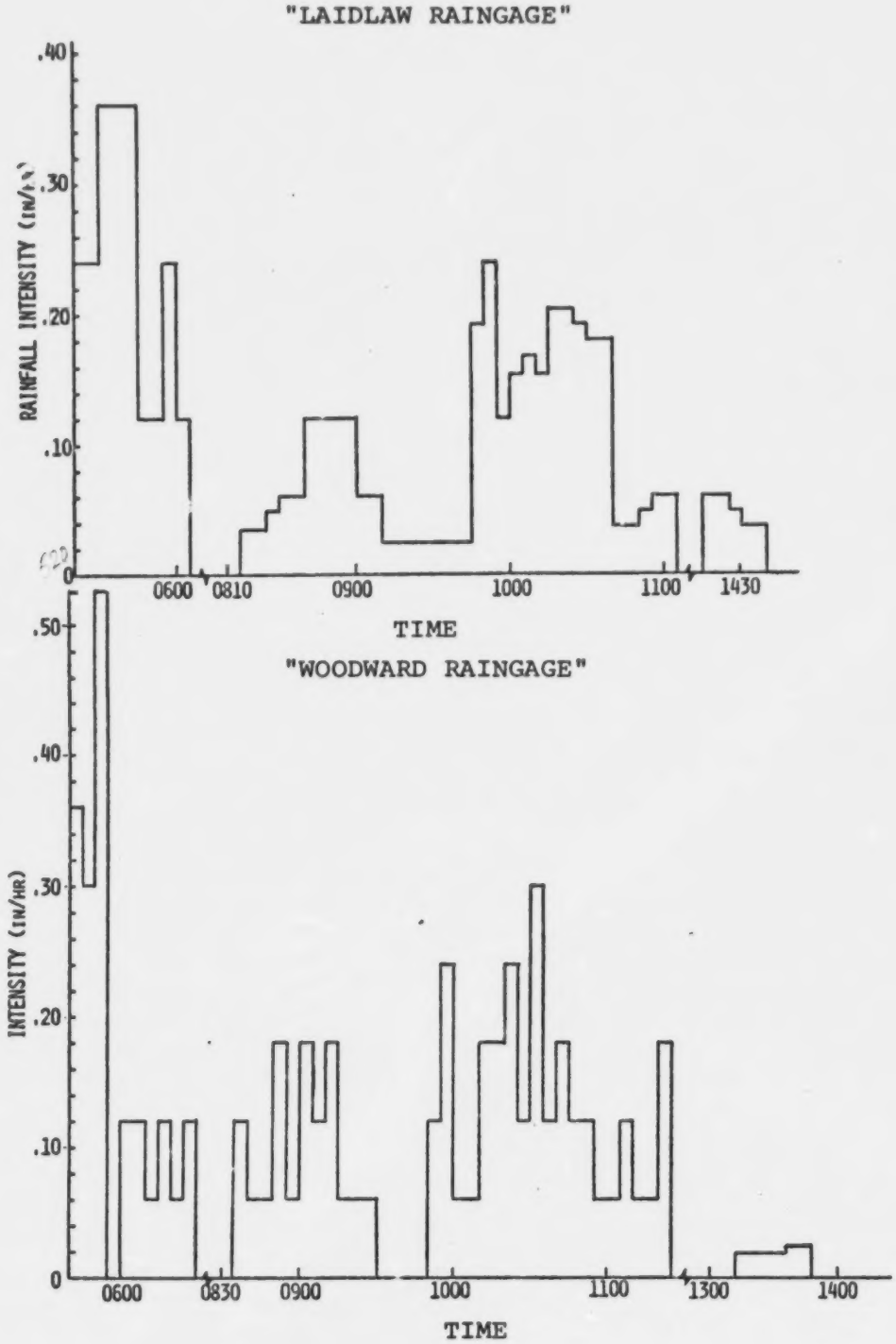
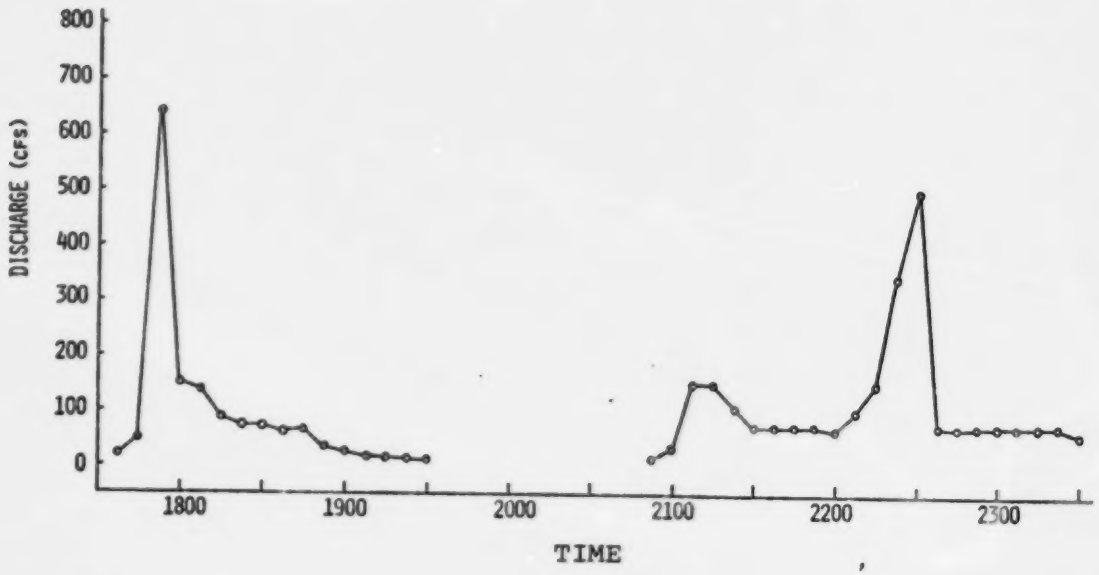


Figure 6-4. RAINFALL OF NOV. 2, 1970
HYETOGRAPHS

Table 6-1. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 2, 1970 MONITORING STATION: Outlet

Time	Discharge (cfs)	COD
1745	50	8400
1752:30	640	3600
1800	150	2480
1807:30	140	2400
1815	90	1760
1822:30	75	1600
1830	75	1120
2107:30	150	1600
2115	150	1840
2122:30	110	3200
2130	75	2240
2137:30	75	5203
2145	75	1840
2152:30	75	1840
2200	70	1840
2207:30	105	1840
2215	150	2080
2222:30	350	2280
2230	500	2450
2237:30	75	1800
2245	80	1600
2252:30	80	1200
2300	80	1400



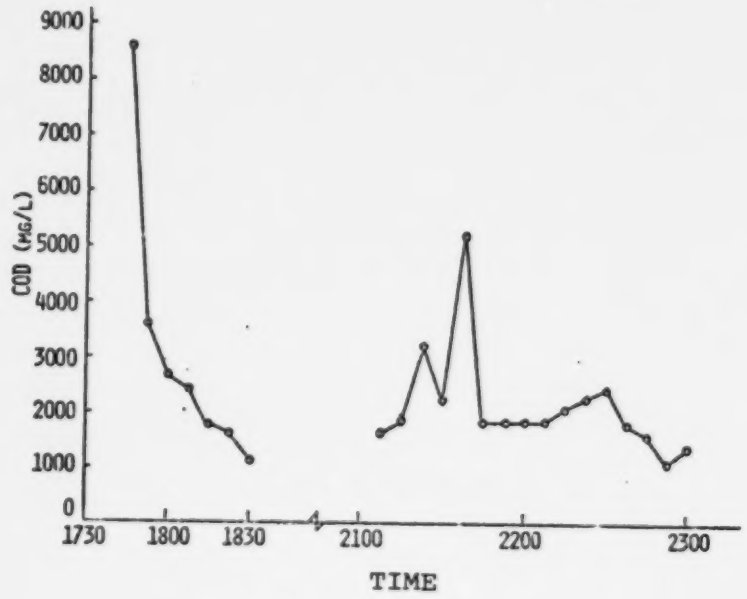
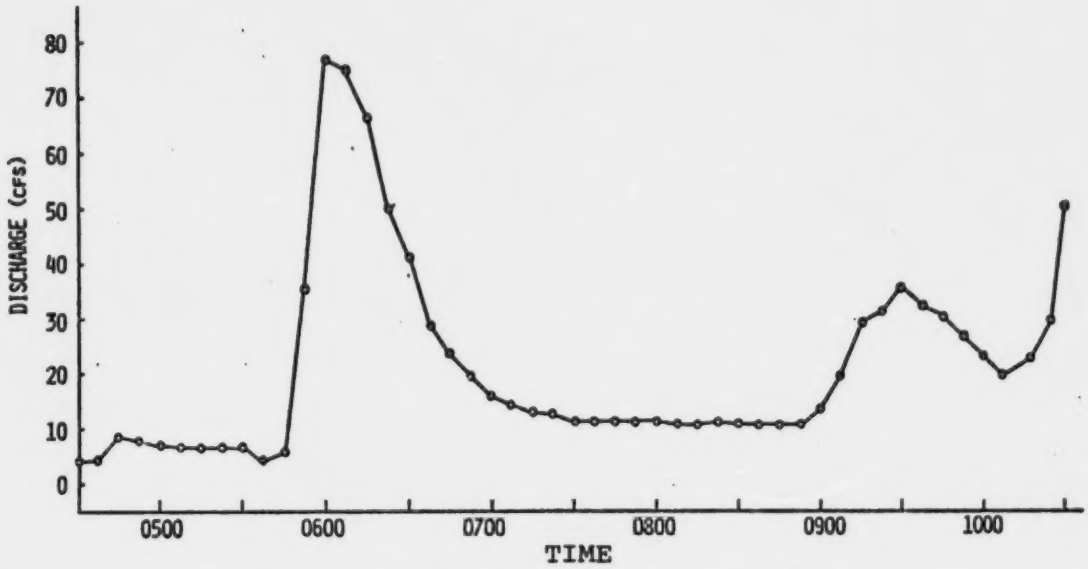
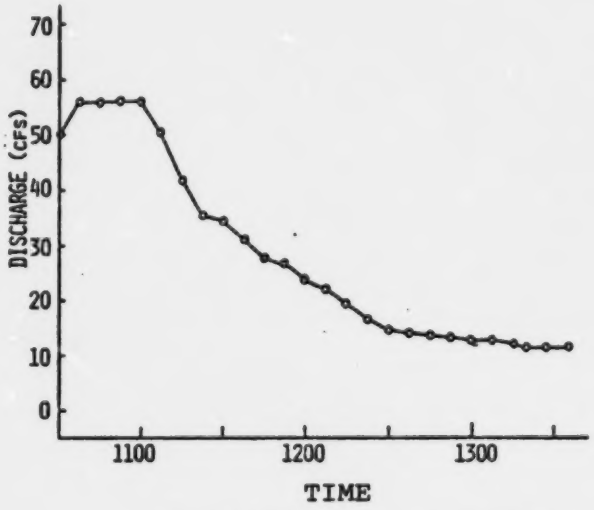


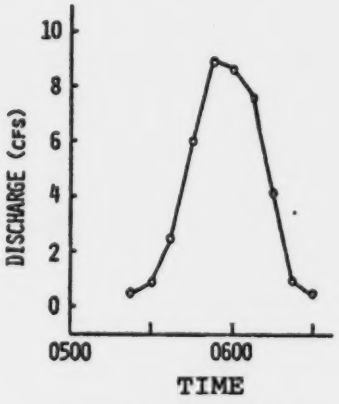
Figure 6-5. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 2, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER



"LONGVIEW 12' x 9' SEWER"

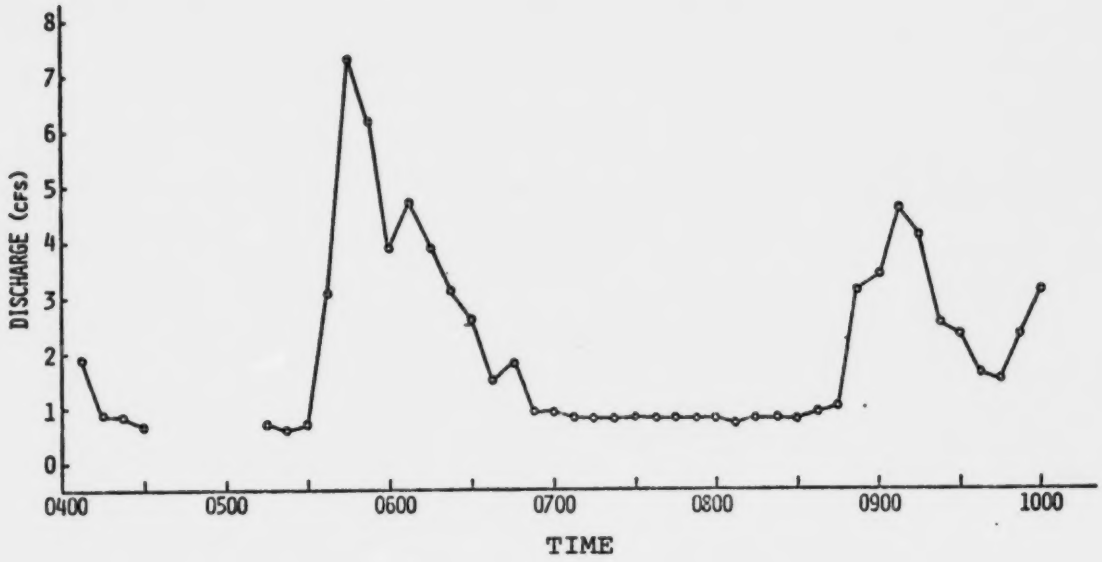


"LONGVIEW 12' x 9' SEWER"



"BANK 54" SEWER"

Figure 6-6. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 2, 1970



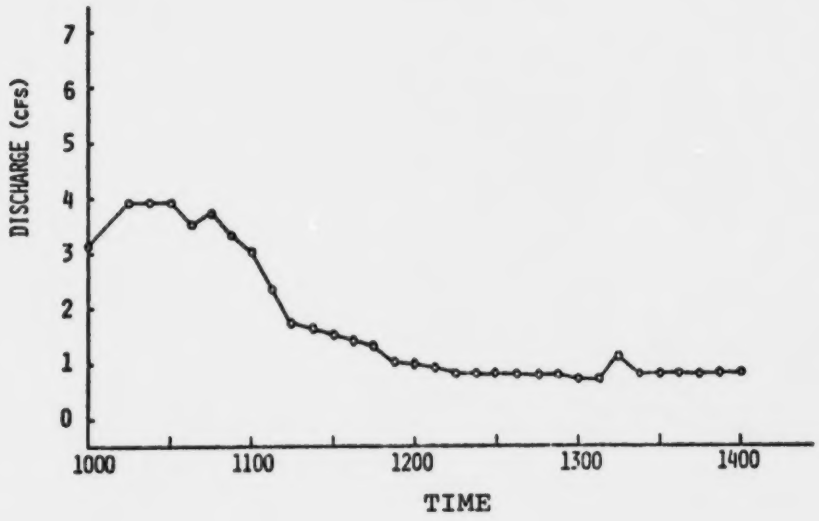


Figure 6-7. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 2, 1970
MONITORING STATION: BANK - 78" SEWER

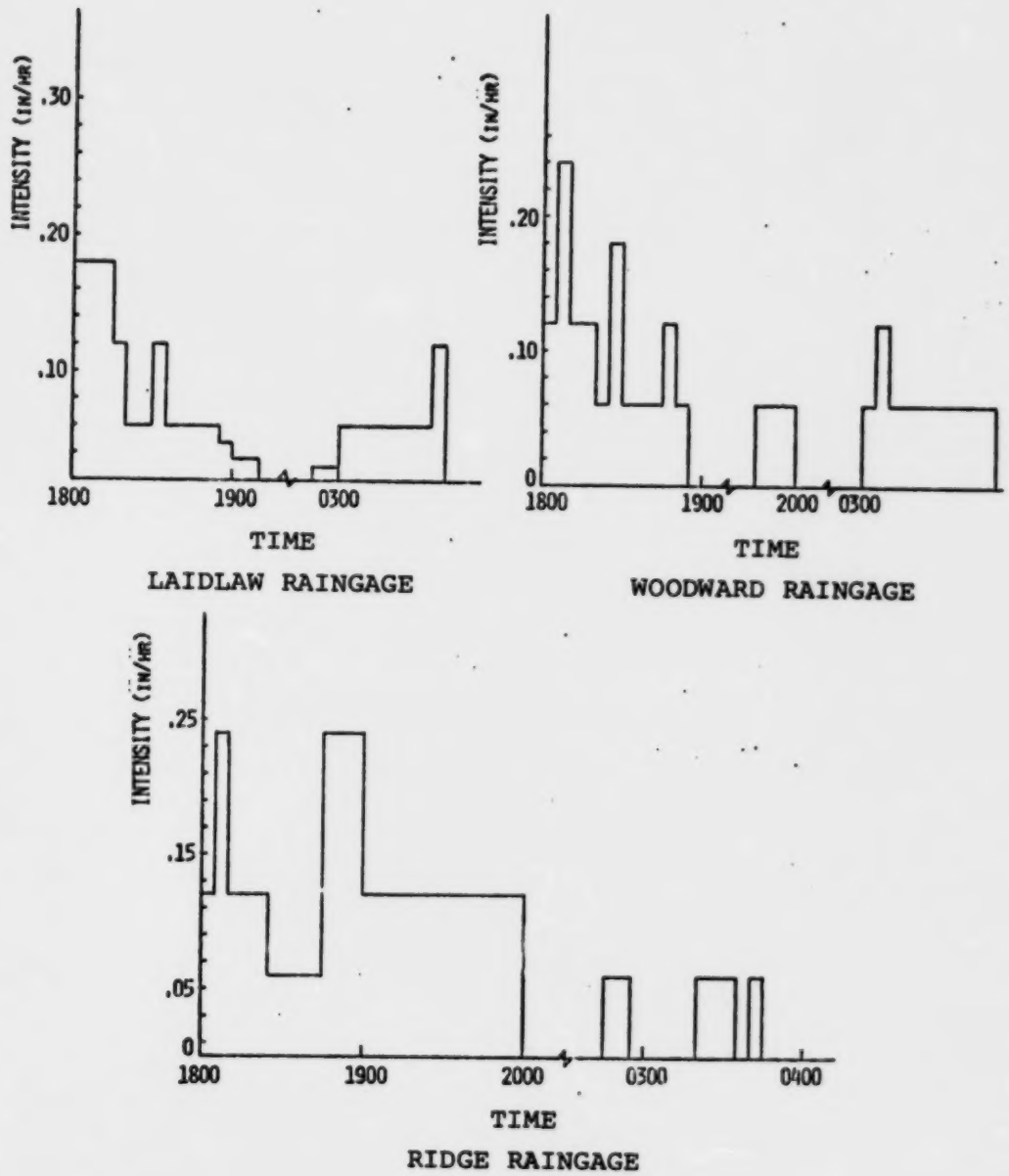


Figure 6-8. RAINFALL OF NOV. 9, 1970
HYETOGRAPHS

Table 6-2 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 9, 1970 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1850	.06	.06	.24	8.8	85
1857:30	.048	-	.24	8.6	47
1905	.036	-	.12	7.8	68
1912:30	-	-	.12	6.6	108
1920	-	-	.12	5.7	111
1927:30	-	-	.12	4.8	121
1935	-	-	.12	4.3	102
1942:30	-	-	.12	4.0	120
1950	-	.06	.12	3.7	39
1957:30	-	.06	.12	3.3	115

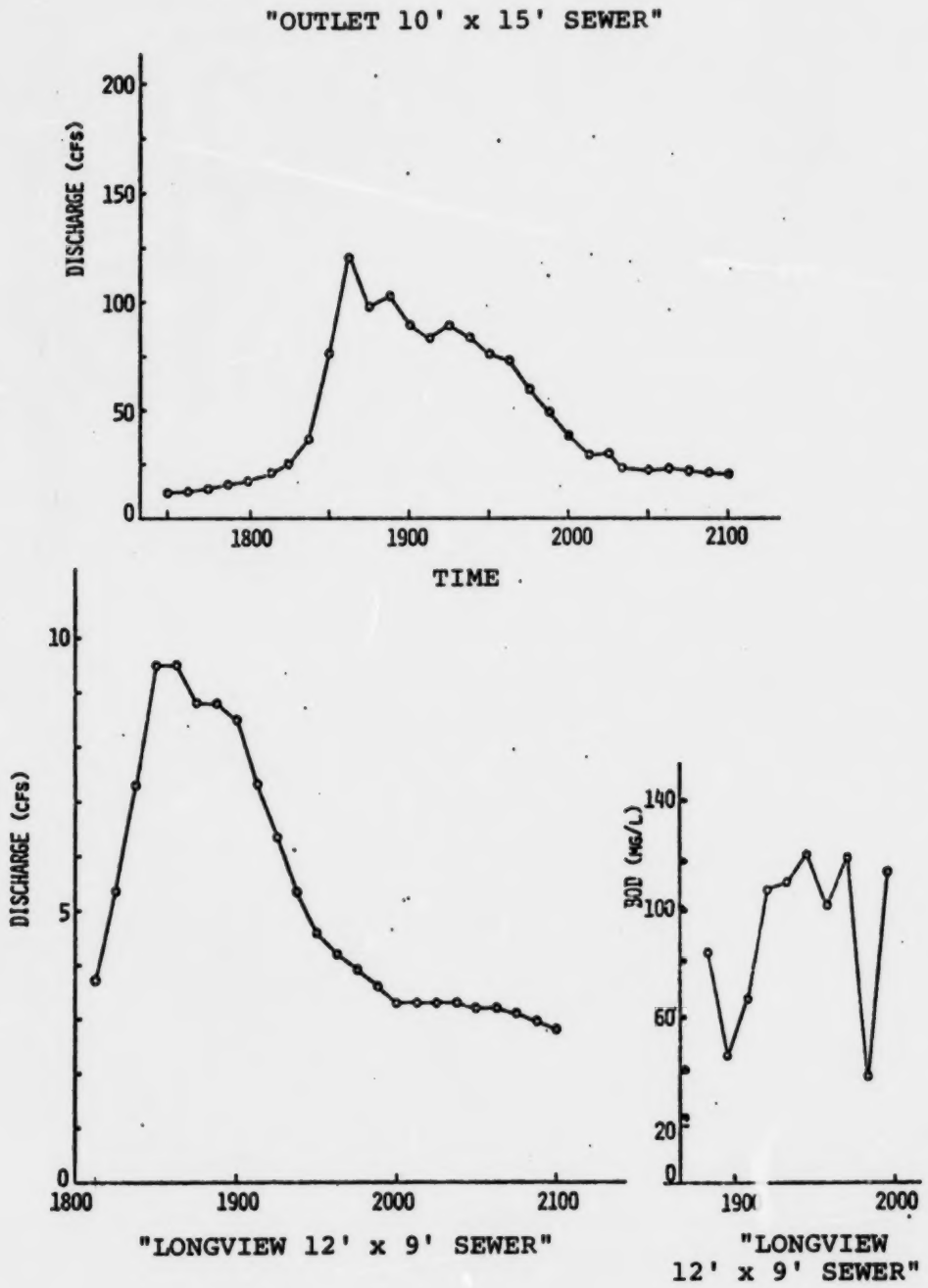


Figure 6-9. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 9, 1970

Table 6-3. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 9, 1970 MONITORING STATION Longview - 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1850	.06	.06	.24	14.6	27
1857:30	.048	-	.24	13.2	31
1905	.036	-	.12	11.6	144
1912:30	-	-	.12	9.0	99
1920	-	-	.12	-	93
1927:30	-	-	.12	-	54
1935	-	-	.12	-	65
1942:30	-	-	.12	-	56
1950	-	.06	.12	-	96
1957:30	-	.06	.12	-	88

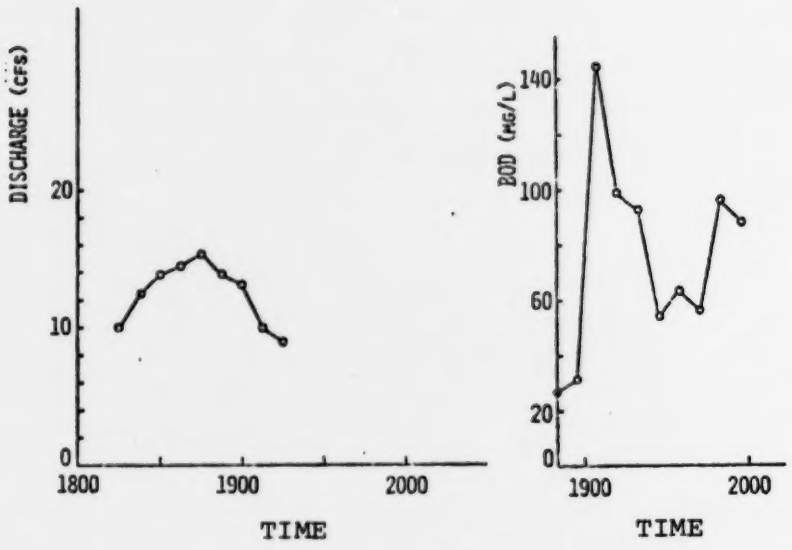


Figure 6-10. RUNOFF QUANTITY AND QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 9, 1970
MONITORING STATION: LONGVIEW
11' x 9' SEWER

Table 6-4. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 9, 1970 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)		Total Solids mg/l	Suspended Solids mg/l	BOD	COD	pH	Chloride Concentration mg/l
	Woodward Gage	Ridge Gage						
1930	-	.12	346	186	158	3440	7.5	27
1937:30	-	.12	321	172	171	2160	-	27
1945	.06	.12	304	154	138	3080	-	36
1952:30	.06	.12	256	132	118	2680	-	27
2000	.06	.12	238	128	99	2280	8.1	18

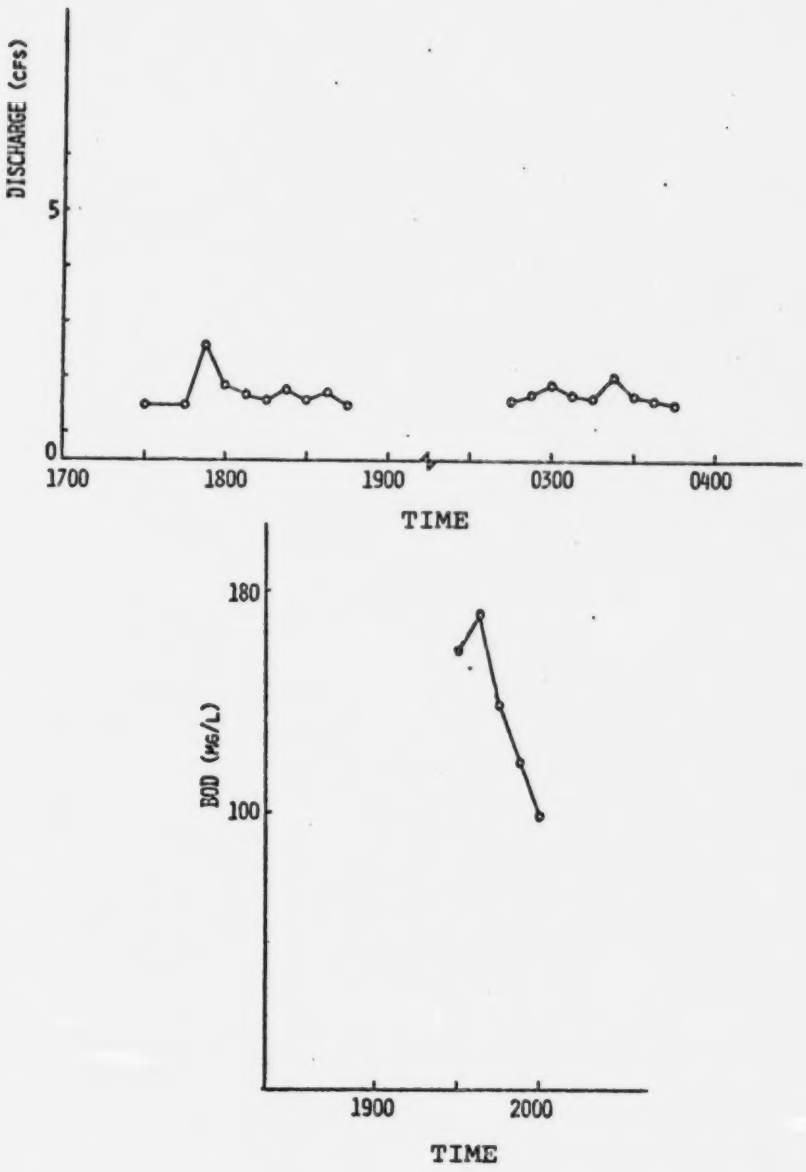


Figure 6-11. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 9, 1970
MONITORING STATION: BANK - 78" SEWER

Table 6-5. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 9, 1970 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)		Total Solids mg/l	Suspended Solids mg/l	BOD	pH	Chloride Concentration mg/l
	Woodward Gage	Ridge Gage					
1915	-	.12	302	148	151	7.1	18
1922:30	-	.12	289	132	99	-	9
1930	-	.12	212	125	133	-	9
1937:30	-	.12	186	98	138	8.0	9
1945	.06	.12	172	90	118	-	9
1952:30	.06	.12	108	76	85	9.5	9

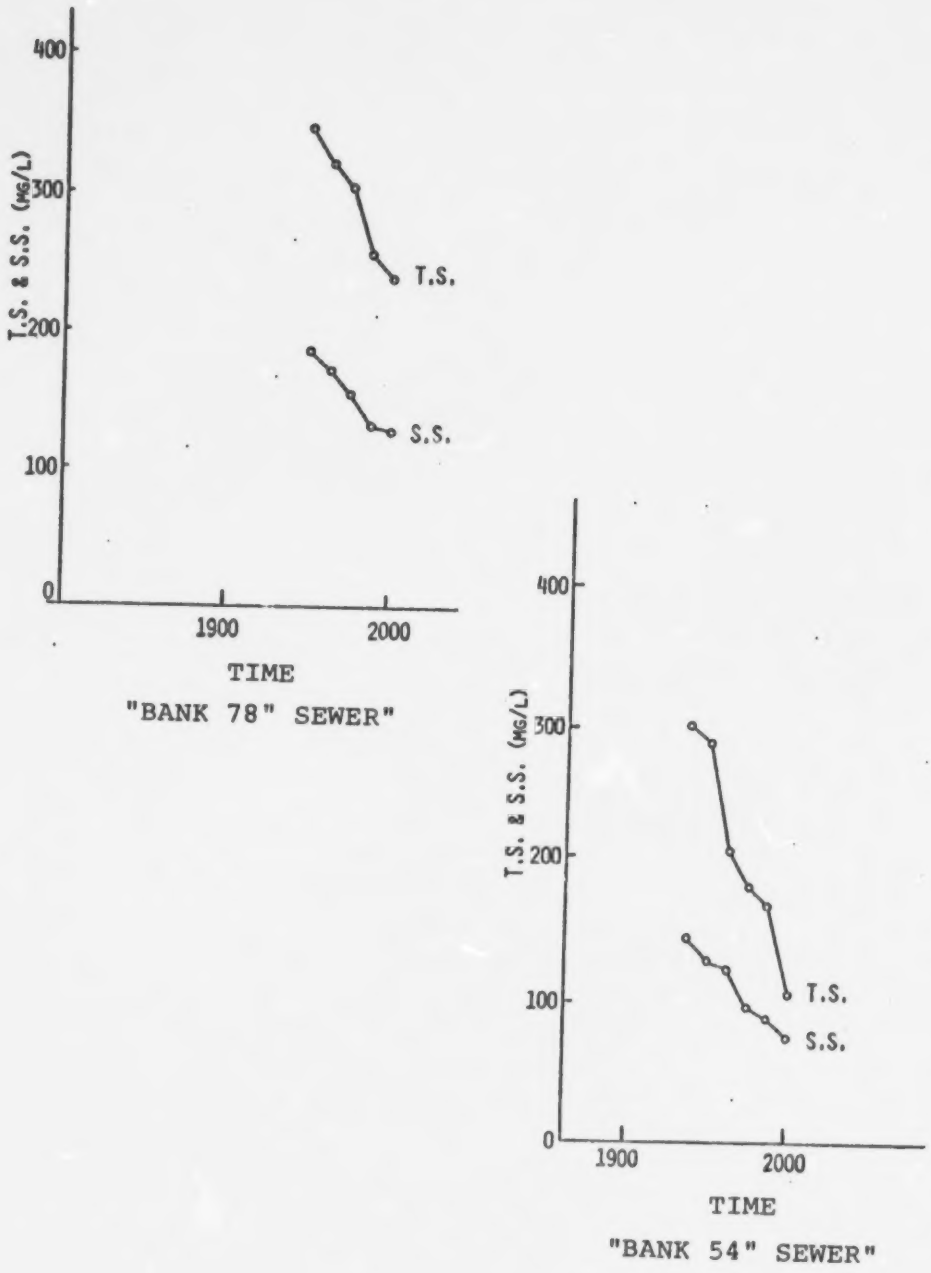
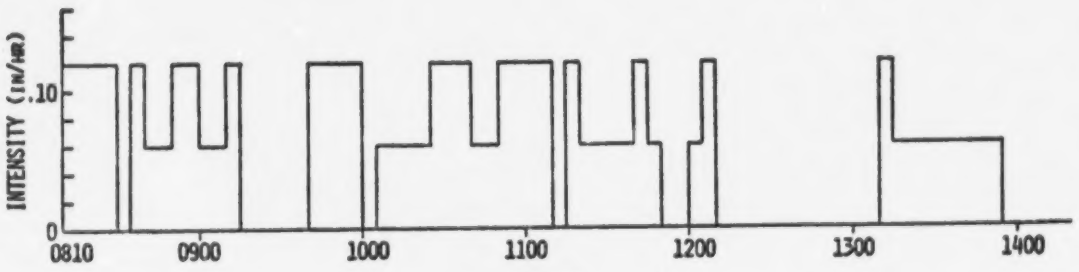
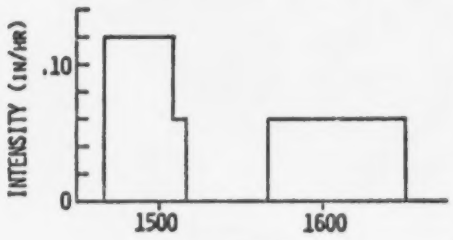


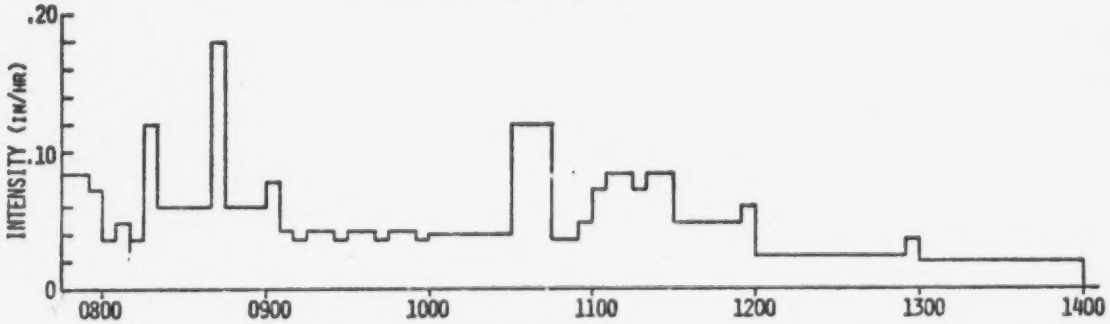
Figure 6-12. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 9, 1970



"RIDGE RAINGAGE"

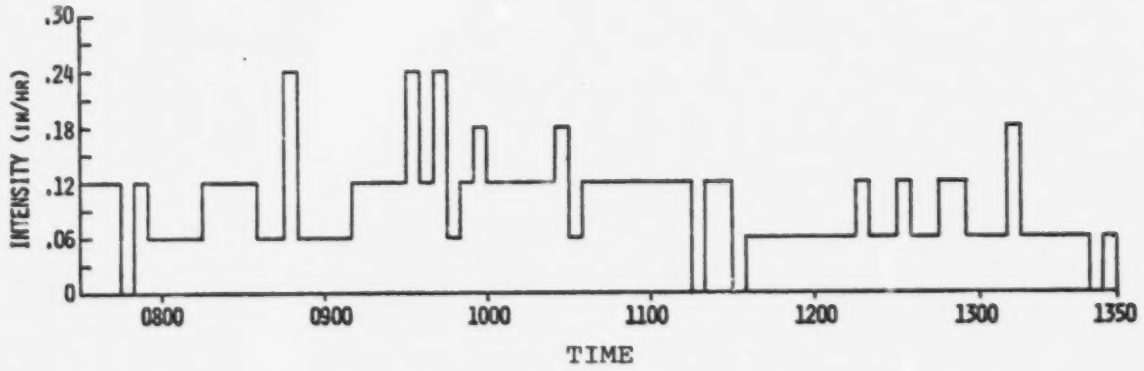


"RIDGE RAINGAGE"



"LAIDLAW RAINGAGE"

Figure 6-13. RAINFALL OF NOV. 14, 1970
HYETOGRAPHS



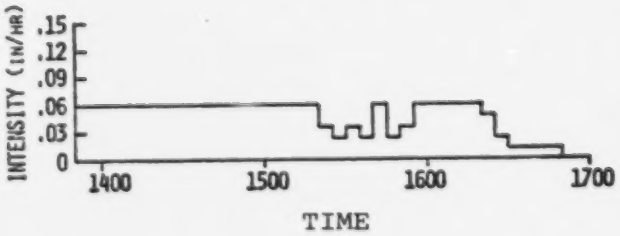
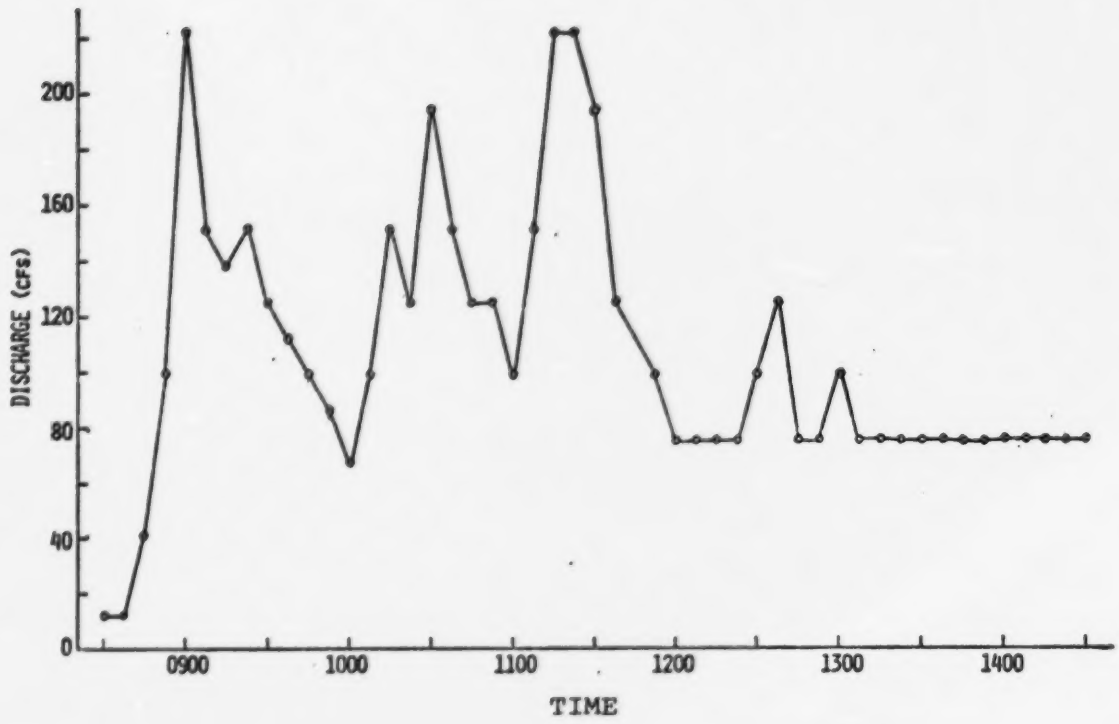


Figure 6-14. RAINFALL OF NOV. 14, 1970
WOODWARD RAINGAGE
HYETOGRAPHS



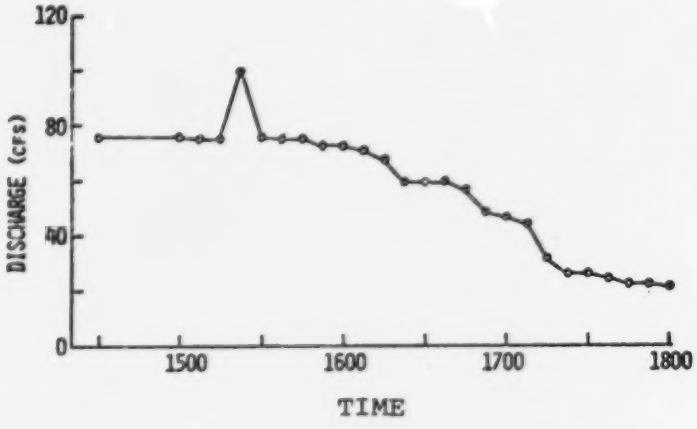


Figure 6-15. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 14, 1970
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-6. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 14, 1970 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1140	.048	.06	.12	51.5	138
1147:30	.048	.06	.06	49.0	66
1155	.06	.06	-	44.0	79
1202:30	.024	.06	.06	41.5	-
1210	.024	.06	-	41.5	79
1217:30	.024	.06	-	41.3	66
1225	.024	.06	-	40.5	66
1232:30	.024	.12	-	39.5	73
1240	.024	.06	-	37.0	86
1247:30	.024	.12	-	35.0	73
1255	.036	.06	-	35.0	63
1302:30	.02	.06	-	33.5	69
1310	.02	.18	.12	31.0	63

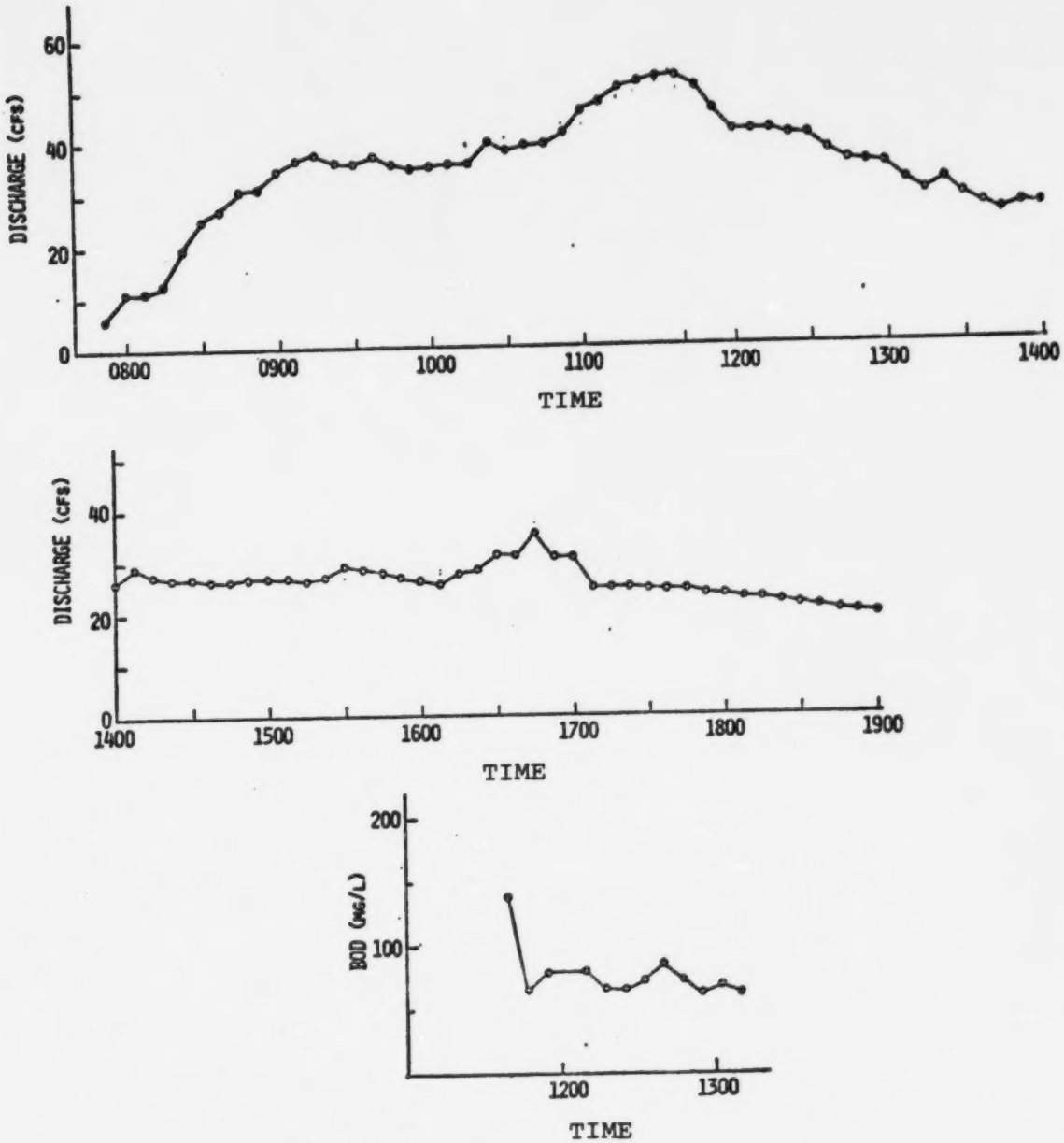
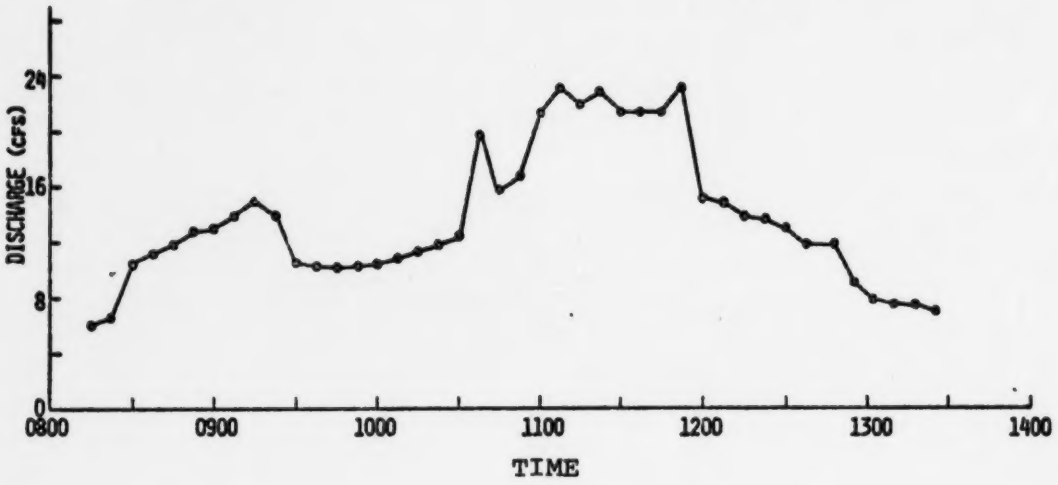


Figure 6-16. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 14, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

Table 6-7. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 14, 1970 MONITORING STATION: Longview - 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1140	.048	.06	.12	21.5	237
1147:30	.048	.06	.06	22.0	142
1155	.06	.06	-	19.3	89
1202:30	.024	.06	.06	15.1	105
1210	.024	.06	.12	14.6	89
1217:30	.024	.12	-	13.8	89
1225	.024	.06	-	13.4	89
1232:30	.024	.12	-	12.6	128
1240	.024	.06	-	11.8	227
1247:30	.024	.12	-	11.8	250
1255	.036	.12	-	9.0	237



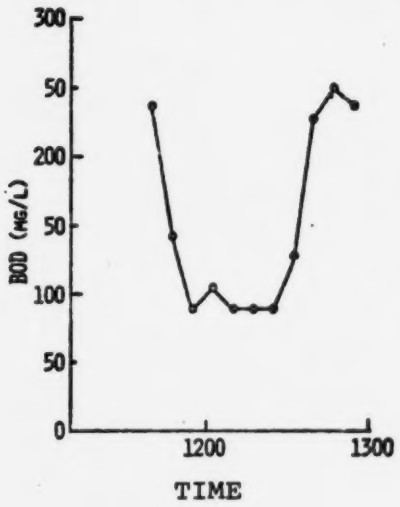
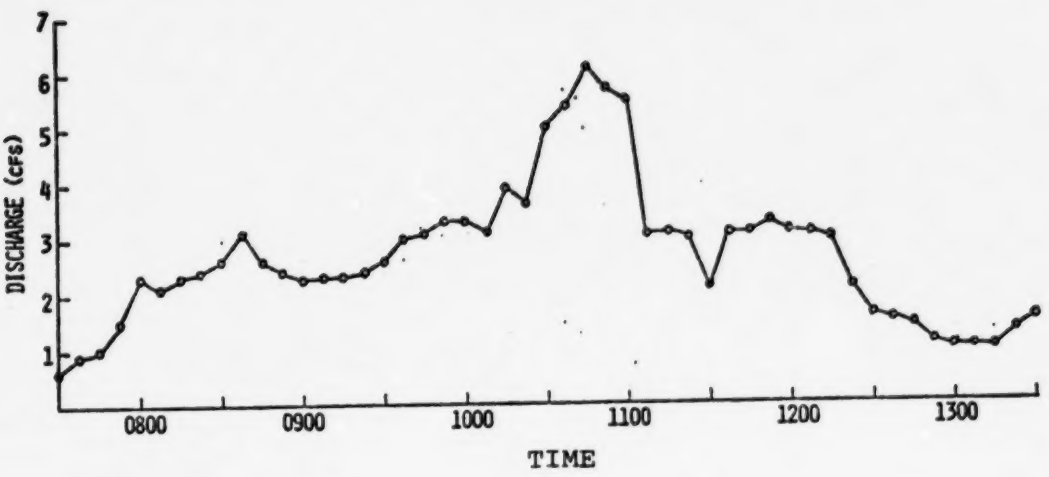


Figure 6-17. RUNOFF QUALITY & QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 14, 1970
MONITORING STATION: LONGVIEW
11' x 9' SEWER

Table 6-8. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 14, 1970 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids mg/l	Suspended Solids mg/l	BOD	COD	pH	Chloride Concentration mg/l
	Laidlaw Gage	Woodward Gage	Ridge Gage							
1155	.06	.06	-	3.2	288	196	102	600	7.2	9
1202:30	.024	06	.06	3.1	316	216	85	-	-	9
1210	.024	.06	.12	3.1	345	333	85	-	7.1	9
1217:30	.024	.12	-	2.7	377	345	82	1480	-	7
1225	.024	.06	-	2.0	356	325	95	1120	-	8
1232:30	.024	.12	-	1.5	348	310	82	1000	7.4	6
1240	.024	.06	-	1.5	326	296	66	-	-	5
1247:30	.024	.12	-	1.25	328	272	92	-	-	4
1255	.06	.06	-	1.0	310	250	46	-	7.5	8
1302:30	.02	.06	-	1.0	289	243	82	-	-	5
1310	.02	.18	.12	1.0	298	237	76	-	-	6
1317:30	.02	.06	.06	1.1	348	216	72	-	-	5
1325	.02	.06	.06	1.4	376	209	66	-	7.5	5



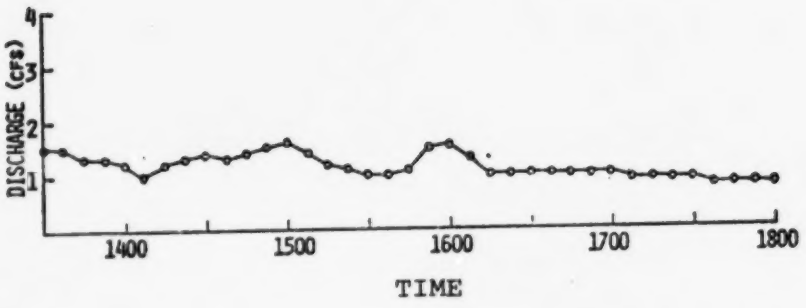


Figure 6-18. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 14, 1970
MONITORING STATION: BANK - 78" SEWER

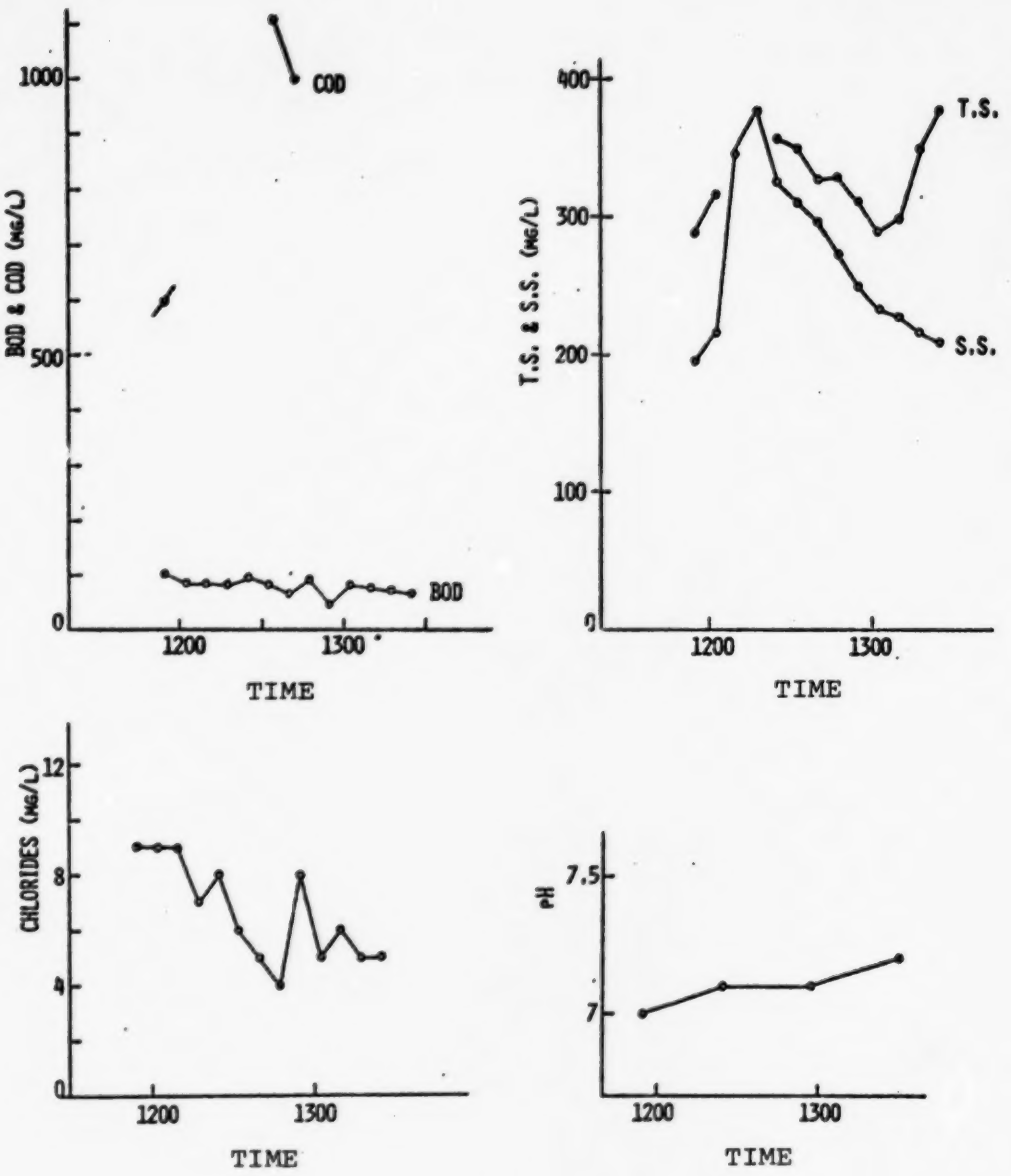


Figure 6-19. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 14, 1970
MONITORING STATION: BANK -
78" SEWER

Table 6-9. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 14, 1970 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Total Solids mg/l	Suspended Solids mg/l	BOD	COD	pH	Chloride Concentration mg/l
	Laidlaw Gage	Woodward Gage	Ridge Gage						
1155	.06	.06	-	348	188	89	360	7.0	9
1202:30	.024	.06	.06	368	216	79	1080	-	9
1210	.024	.06	.12	384	248	72	1120	-	9
1217:30	.024	.12	-	392	276	69	-	-	9
1225	.024	.06	-	461	264	69	240	7.1	9
1232:30	.024	.12	-	374	252	76	600	-	9
1240	.024	.06	-	325	192	83	240	-	7
1247:30	.024	.12	-	-	-	99	-	-	8
1255	.06	.06	-	348	160	69	-	7.1	9
1302:30	.02	.06	-	312	142	86	720	-	9
1310	.02	.18	.12	289	126	79	480	-	13
1317:30	.02	.06	.06	276	110	92	1000	-	18
1325	.02	.06	.06	254	102	79	1000	7.2	18

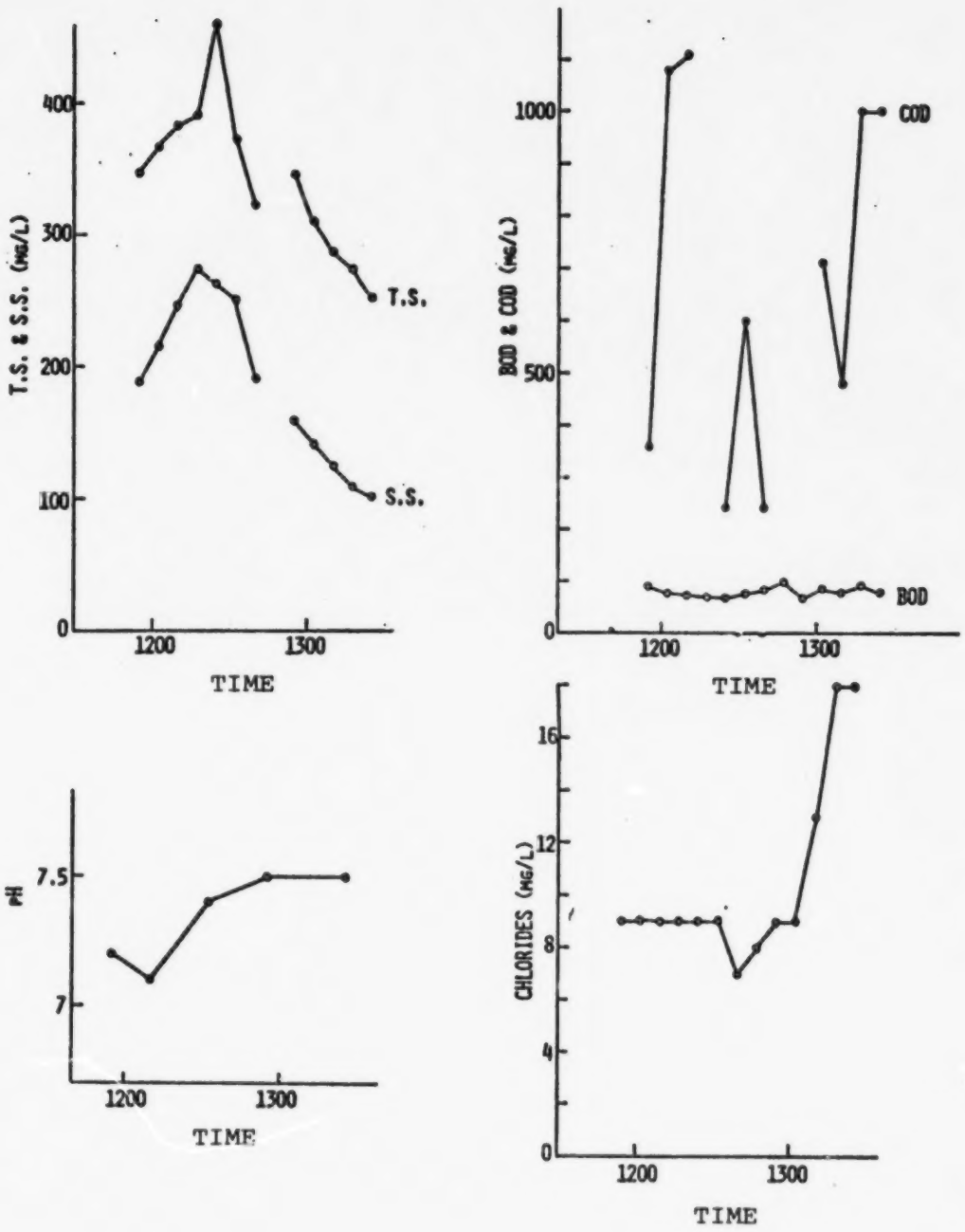


Figure 6-20. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 14, 1970
MONITORING STATION: BANK -
54" SEWER

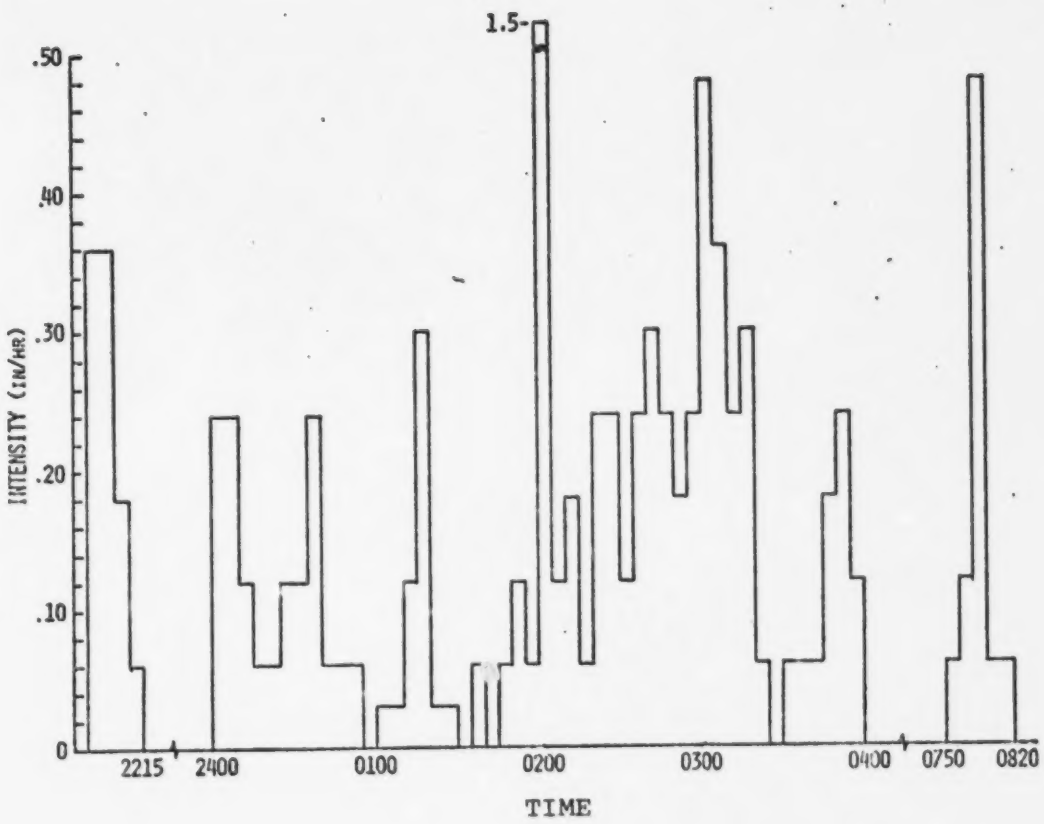


Figure 6-21. RAIN OF NOVEMBER 19 & 20, 1970
LAIDLAW RAINGAGE
HYETOGRAPH

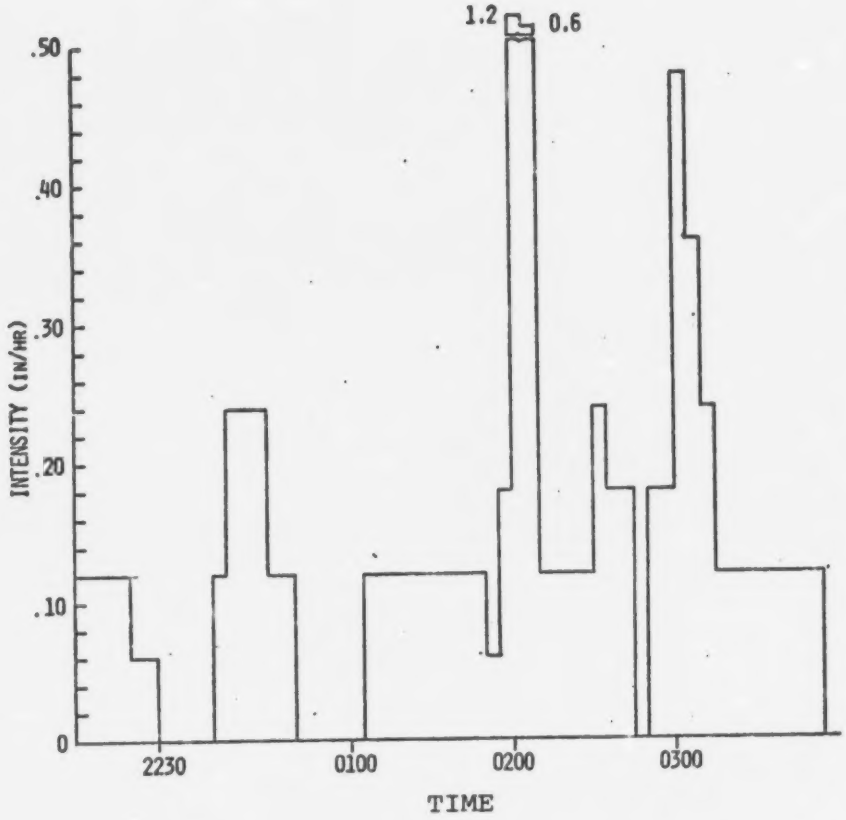


Figure 6-22. RAIN OF NOVEMBER 19 & 20, 1970
RIDGE RAINGAGE
HYETOGRAPH

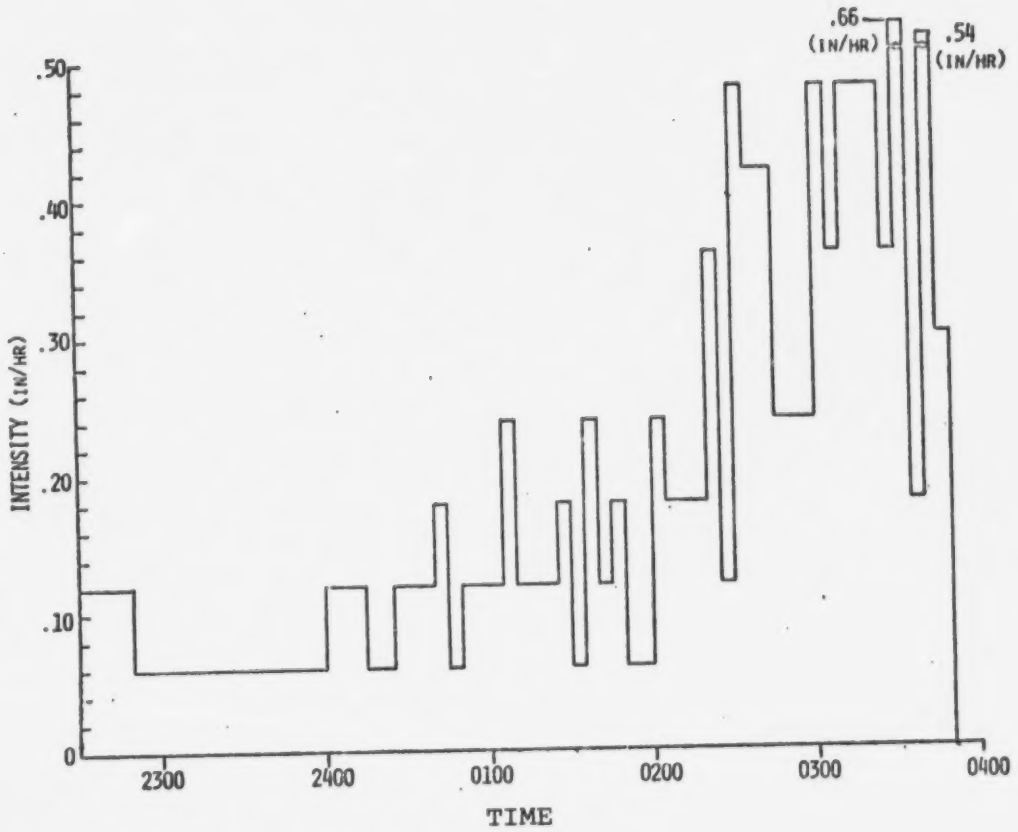


Figure 6-23. RAIN OF NOVEMBER 19 & 20, 1970
WOODWARD RAINGAGE
HYETOGRAPH

Table 6-10. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 20, 1970 MONITORING STATION: Outlet

Time	Discharge (cfs)	BOD
1247:30	200	-
1255	255	-
1302:30	257.5	231
1310	220	217
1415	200	208
1422:30	475	191
1430	525	178
37:30	450	158
45	365	72
52:30	365	86
1500	380	92
7:30	390	96
15	437	99
22:30	490	102
30	474	112
37:30	416	99
45	346	92
52:30	303	86
1600	298	79
7:30	333	89
15	312	89
22:30	268	73
30	240	53
37:30	179	40

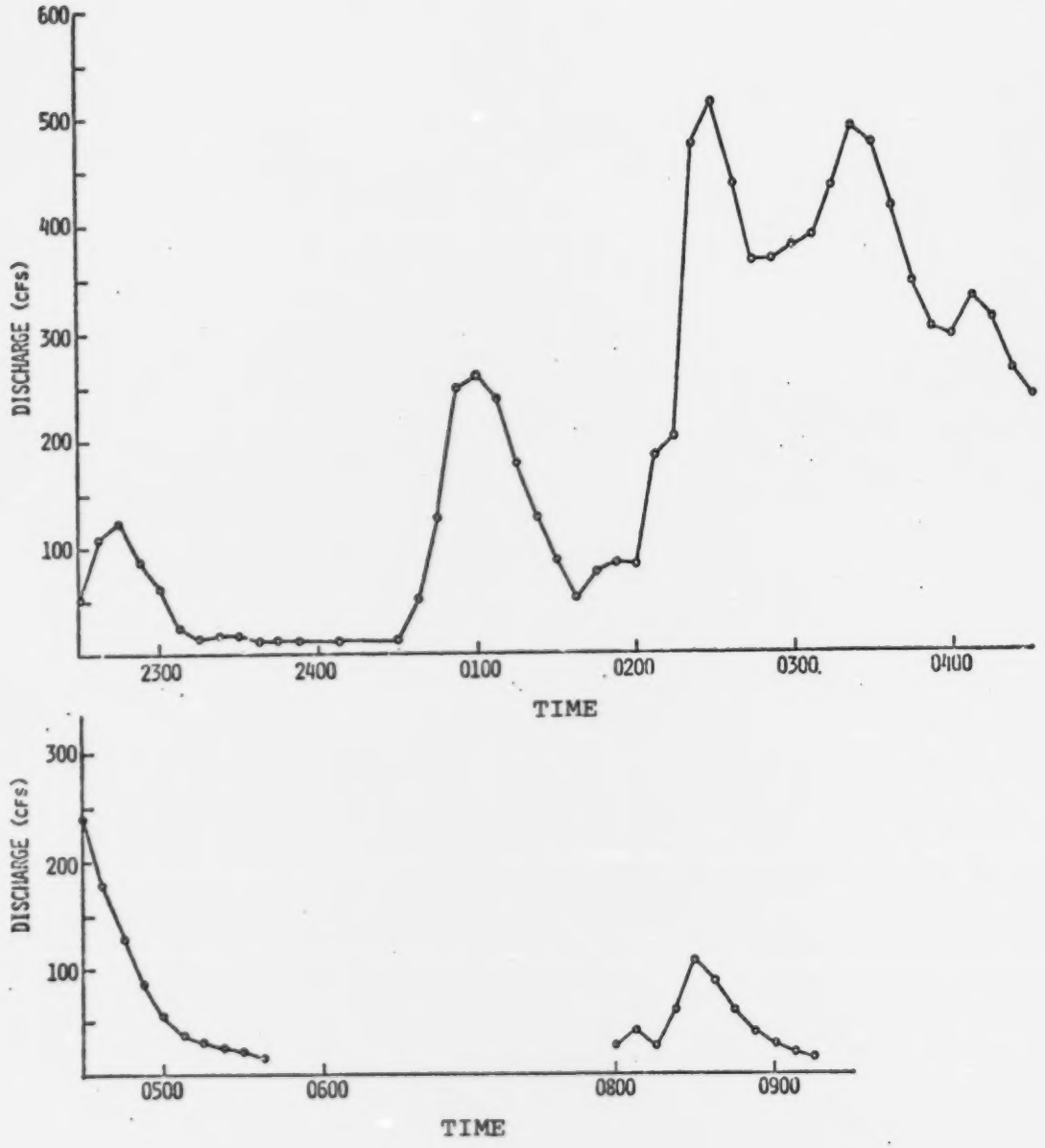


Figure 6-24. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

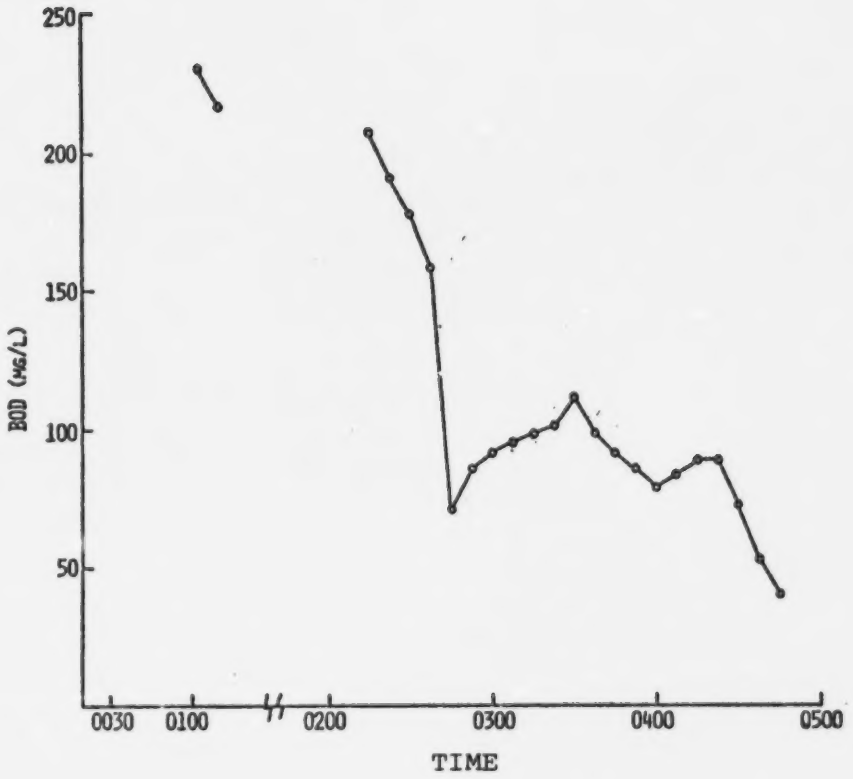


Figure 6-25. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

Table 6-11. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 20, 1970 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
2225	-	-	.06	59	86
2232:30	-	.12	-	62	92
0085	.24	.12	.12	63.5	63
0042:30	.06	.18	-	71	72
0050	.06	.12	-	70	72
0057:30	-	.12	-	63.5	66
0210	.18	.18	.12	76	63
0217:30	.06	.18	.12	118	59
0225	.24	.12	.12	130	53
0232:30	.12	.48	.24	97	49
0240	.30	.42	.18	85	46
0247:30	.24	.24	.12	85	49
0255	.24	.24	.18	89.5	72
0302:30	.48	.48	.48	92.5	86
0310	.24	.48	.24	98	-
0317:30	.30	.48	.12	108	-
0325	-	.36	.12	114	105
0332:30	.06	.66	.12	101	91
0340	.06	.54	.12	81	-
0347:30	.18	.30	.12	69	99
0355	.12	-	-	74	86
0402:30	-	-	-	-	-
0410	-	-	-	-	-
0417:30	-	-	-	-	112

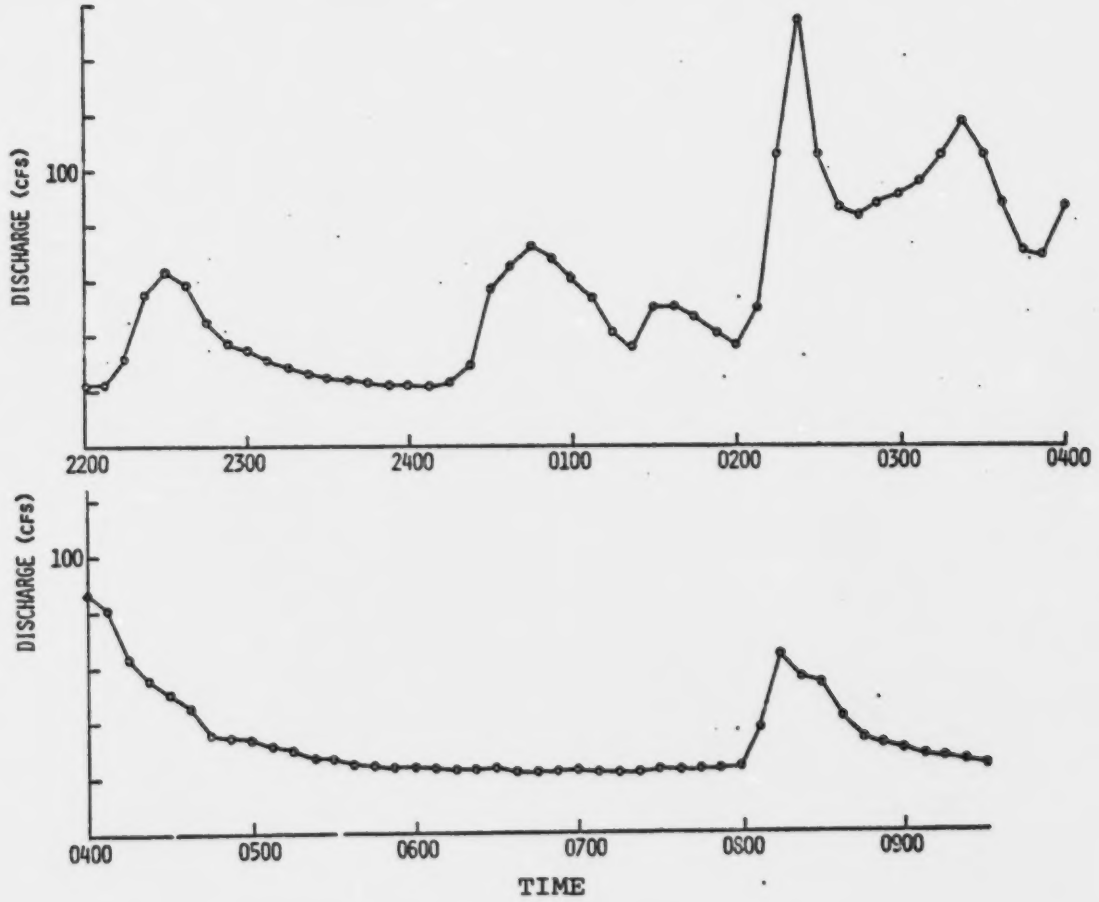


Figure 6-26. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

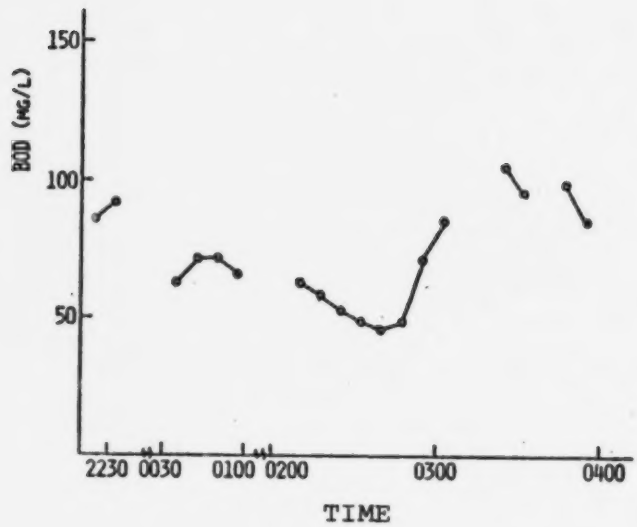


Figure 6-27. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

Table 6-12. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 20, 1970 MONITORING STATION: Longview - 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
0105	.03	.24	.12	27	237
0112:30	.12	.12	.12	21.5	148
0220	.24	.36	.12	60	89
0227:30	.24	.12	.12	104	201
0235	.24	.48	.24	81	-
0242:30	.3	.42	.18	46	88
0250	.24	.24	.18	43	72
0257:30	.24	.24	.18	51	-
0305	.48	.48	.48	55	89
0312:30	.24	.48	.24	55	-
0320	.3	.48	.12	61	-
0327:30	-	.36	.12	69	-
0335	.06	.66	.12	74	92
0342:30	.06	.54	.12	58	82
0350	.24	.3	.12	34.5	85
0357:30	.12	-	-	28	99
0405	-	-	-	-	118

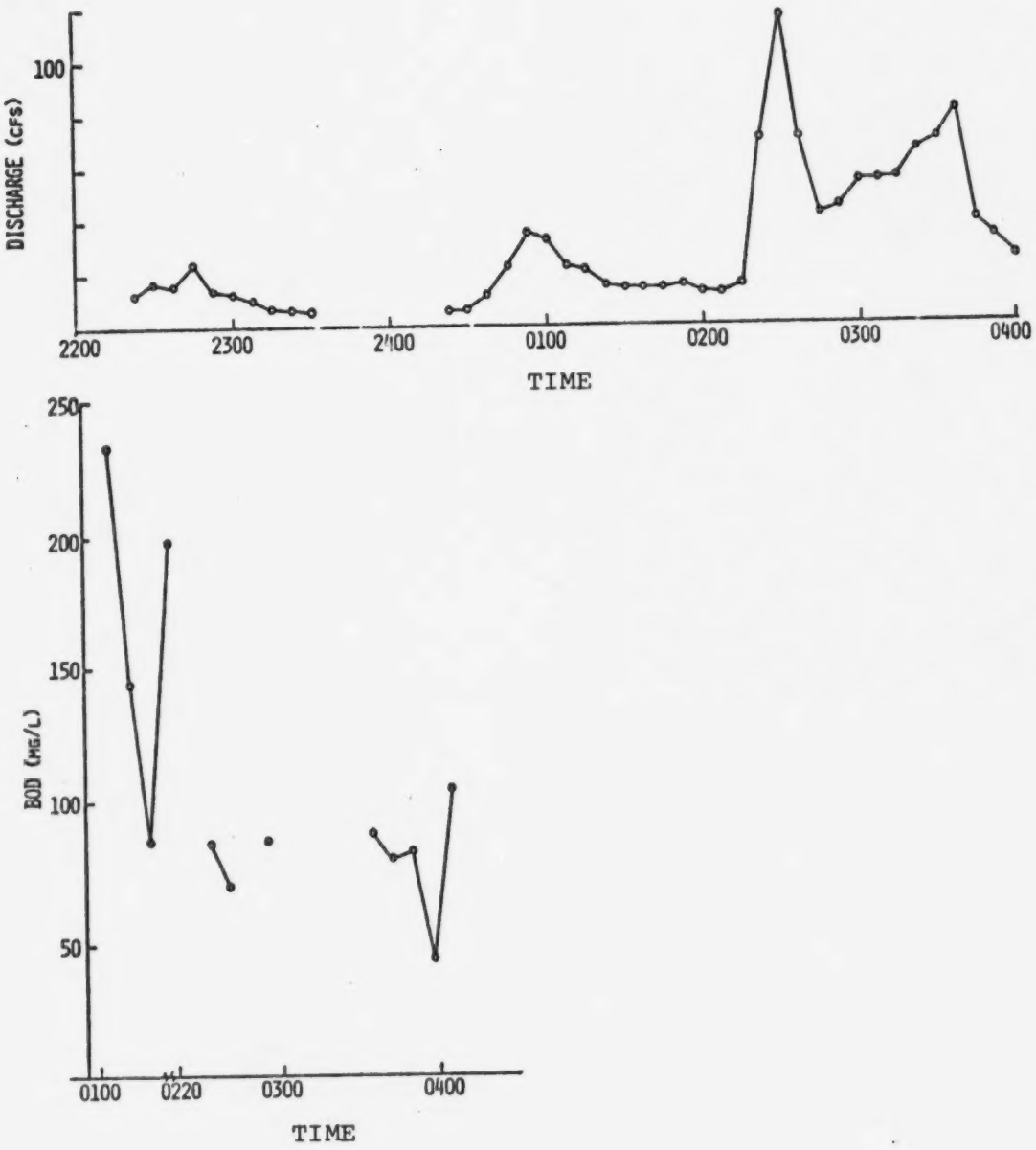


Figure 6-28. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

Table 6-13. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 20, 1970 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
2140	-	-	-	5.5	181
0127:30	.03	.18	.12	20	89
0135	.06	.24	.12	4.9	76
0215	.18	.18	.12	6.4	76
0227:30	.24	.12	.12	8.0	85
0235	.24	.48	.24	9.2	66
0242:30	.30	.42	.18	8.8	72
0250	.24	.24	.18	6.5	49
0310	.36	.48	.36	12	85
0317:30	.30	.48	.12	15.5	85
0325	.06	.48	.12	9.5	85
0725	-	-	-	6.8	89

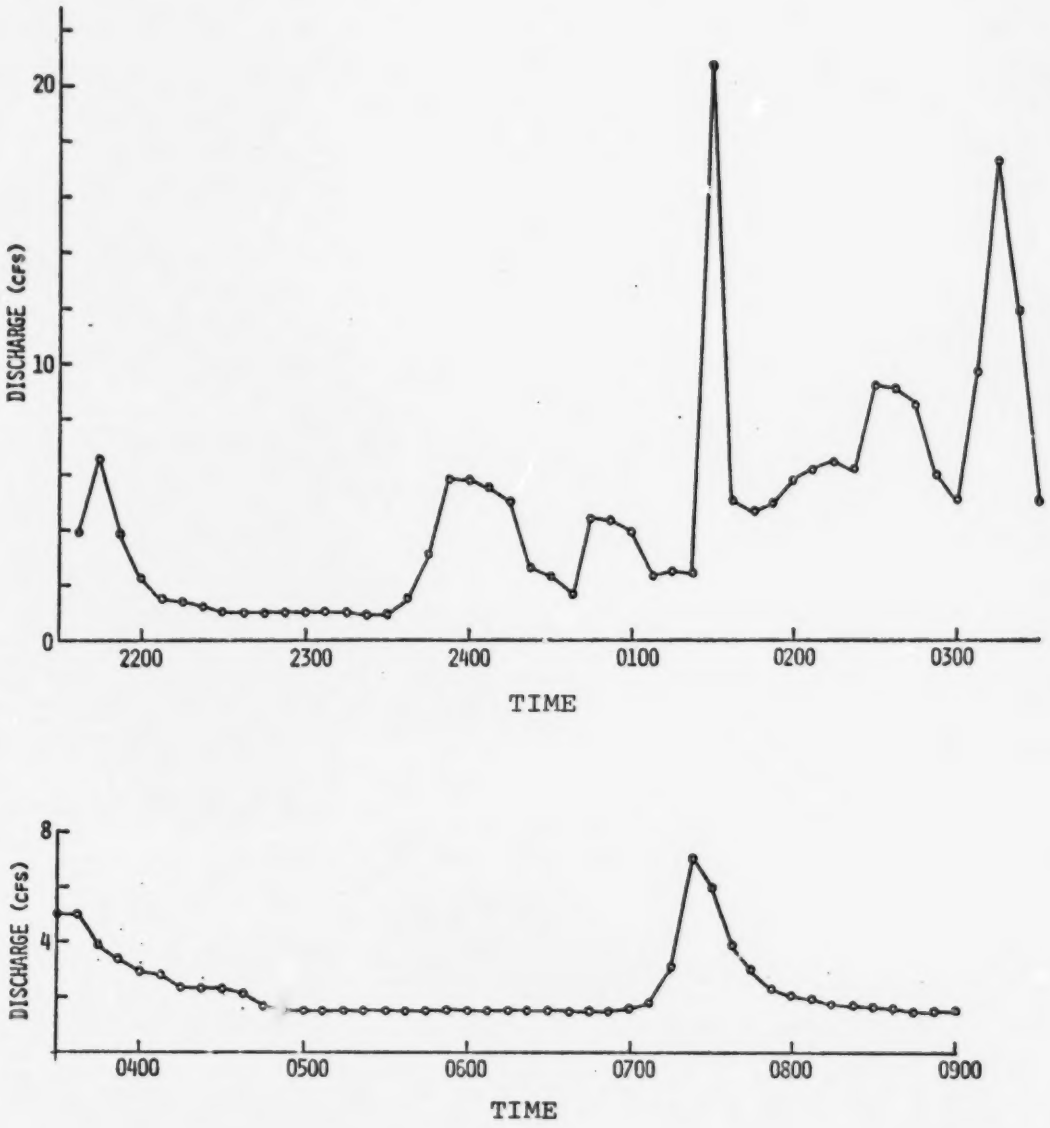


Figure 6-29. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: BANK -
78" SEWER

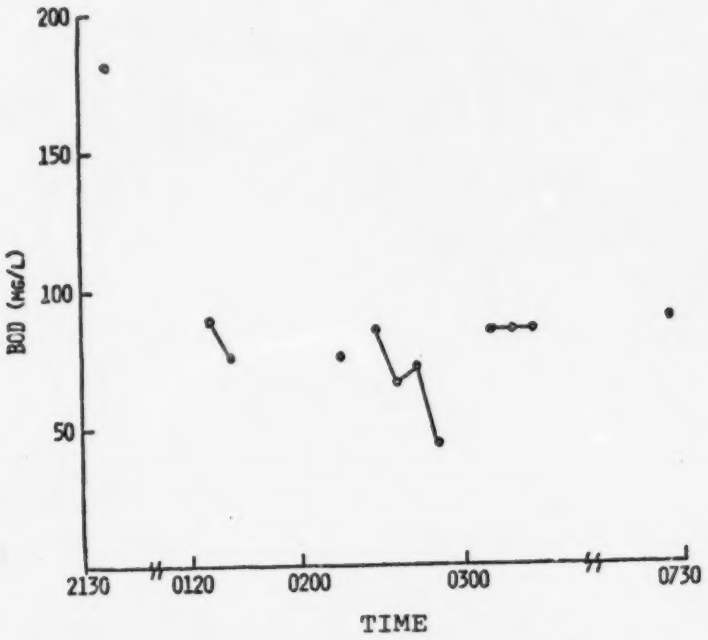


Figure 6-30. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: BANK -
78" SEWER

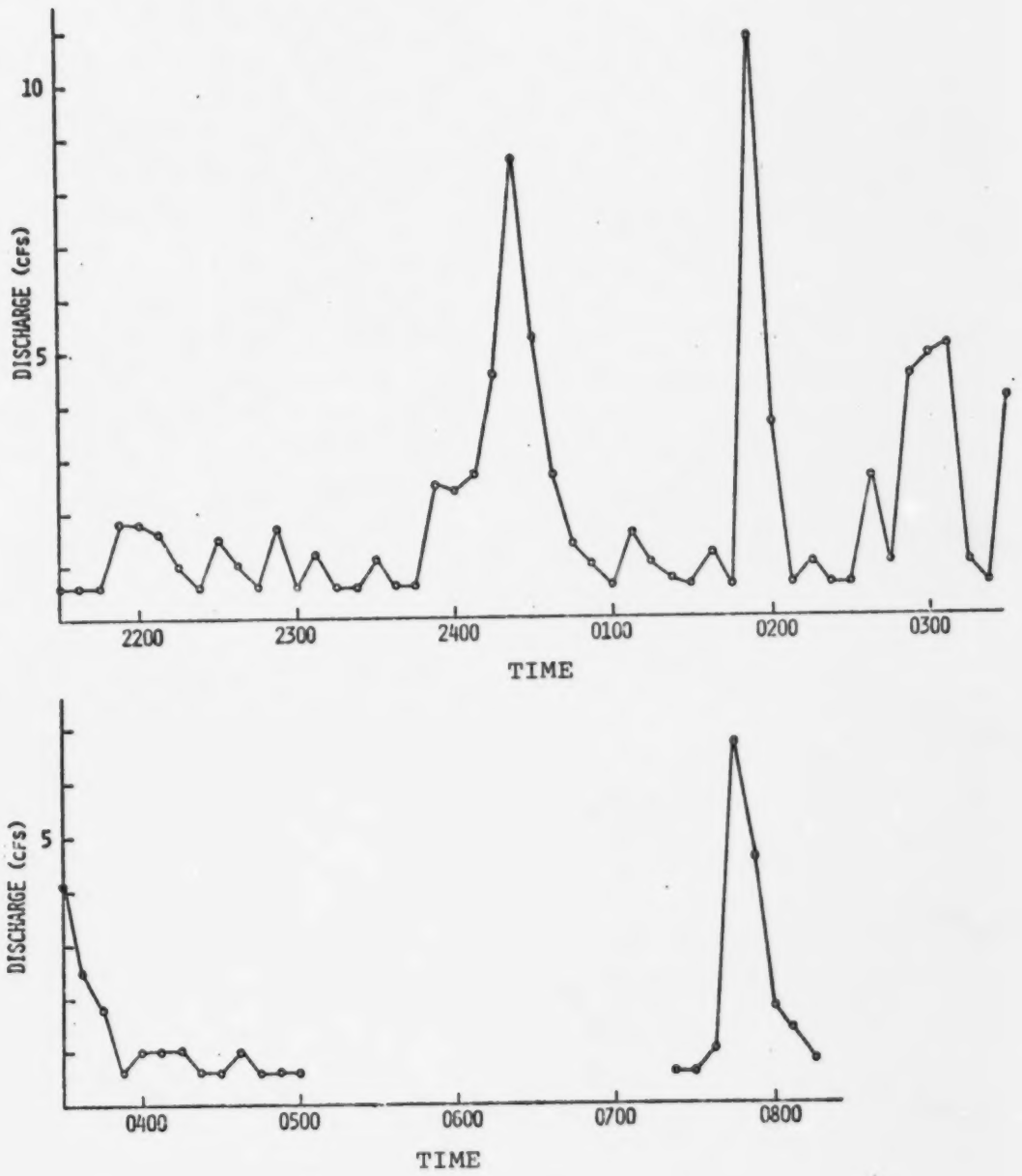
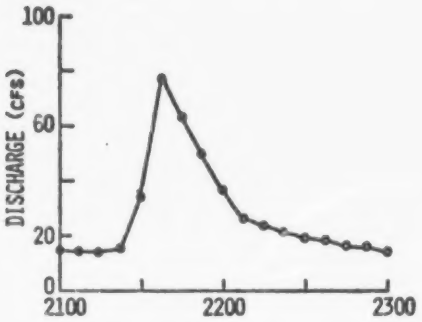
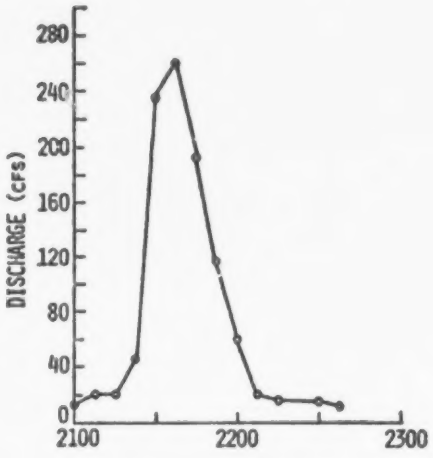


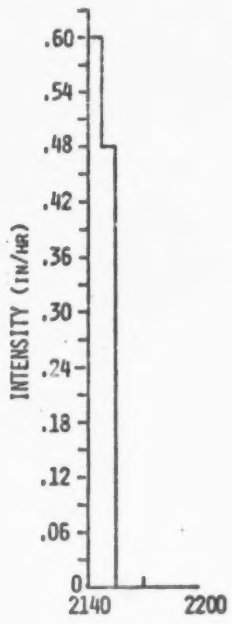
Figure 6-31. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: NOV. 19 & 20, 1970
MONITORING STATION: BANK -
54" SEWER



"LONGVIEW 12' x 9' SEWER"



"OUTLET 10' x 15' SEWER"



"LAIDLAW RAINGAGE"

Figure 6-32. RUNOFF QUANTITY & RAINFALL DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 3, 1970

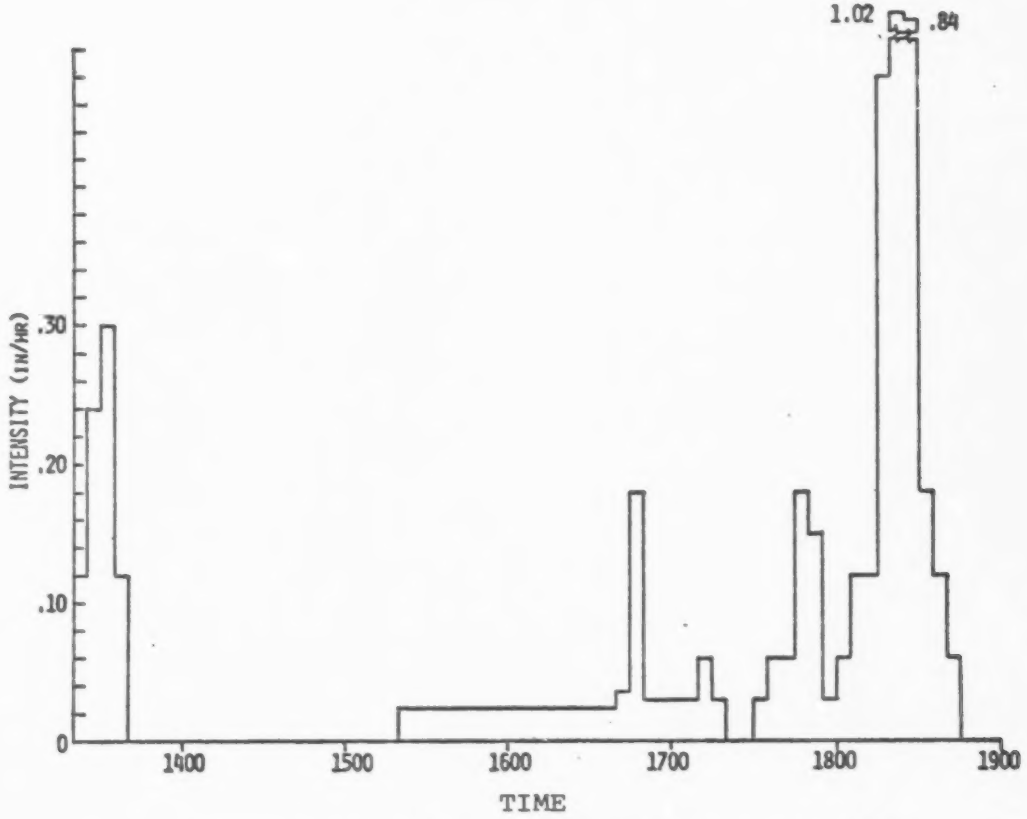


Figure 6-33. RAIN OF DECEMBER 11 & 12, 1970
LAIDLAW RAINGAGE
HYETOGRAPH

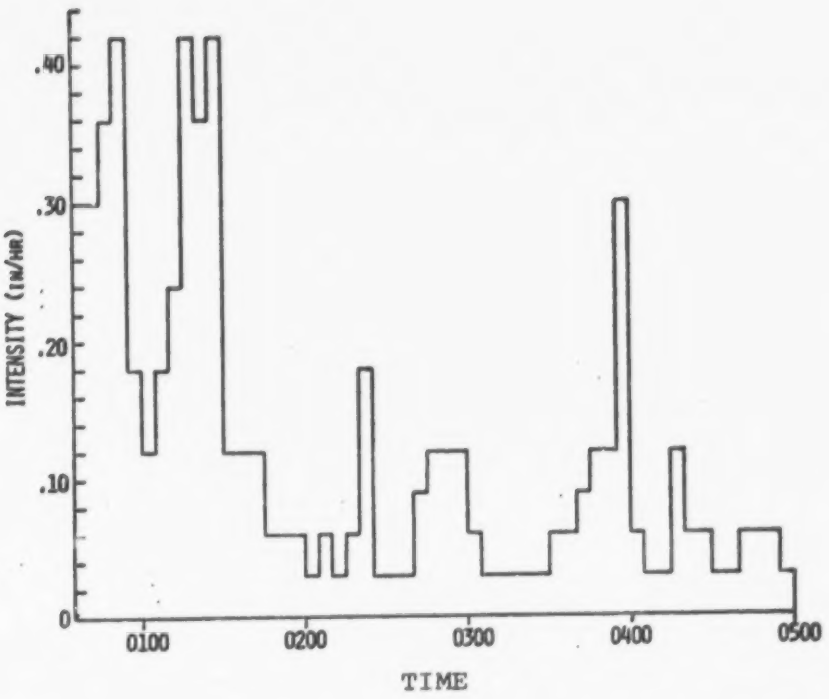


Figure 6-34. RAIN OF DECEMBER 11 & 12, 1970
LAIDLAW RAINGAGE
HYETOGRAPH

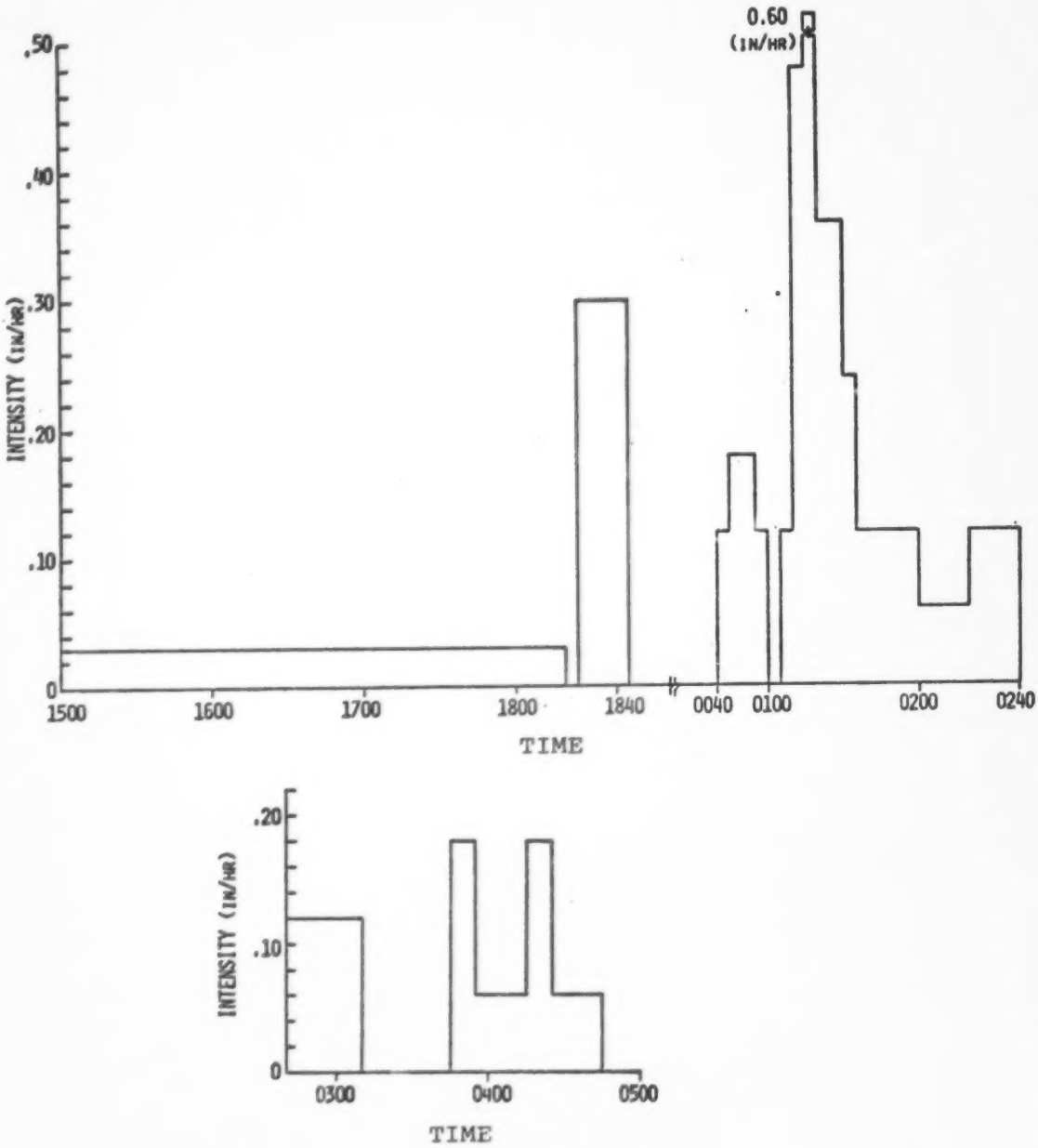


Figure 6-35. RAIN OF DECEMBER 11 & 12, 1970
RIDGE RAINGAGE
HYETOGRAPH

Table 6-14. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11, 12, 1970 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)	Discharge (cfs)	BOD
	Ridge Gage		
1400	-	39[illegible]	188
1407:30	-	29[illegible]	-
1415	-	250	160
1422:30	-		138
1430	-	222	[illegible]
1437:30	-	203	141
1445	-	203	-
1452:30	-	222	41
1500	.03		63
1507:30	.03	222	260
1515	.03	215	232

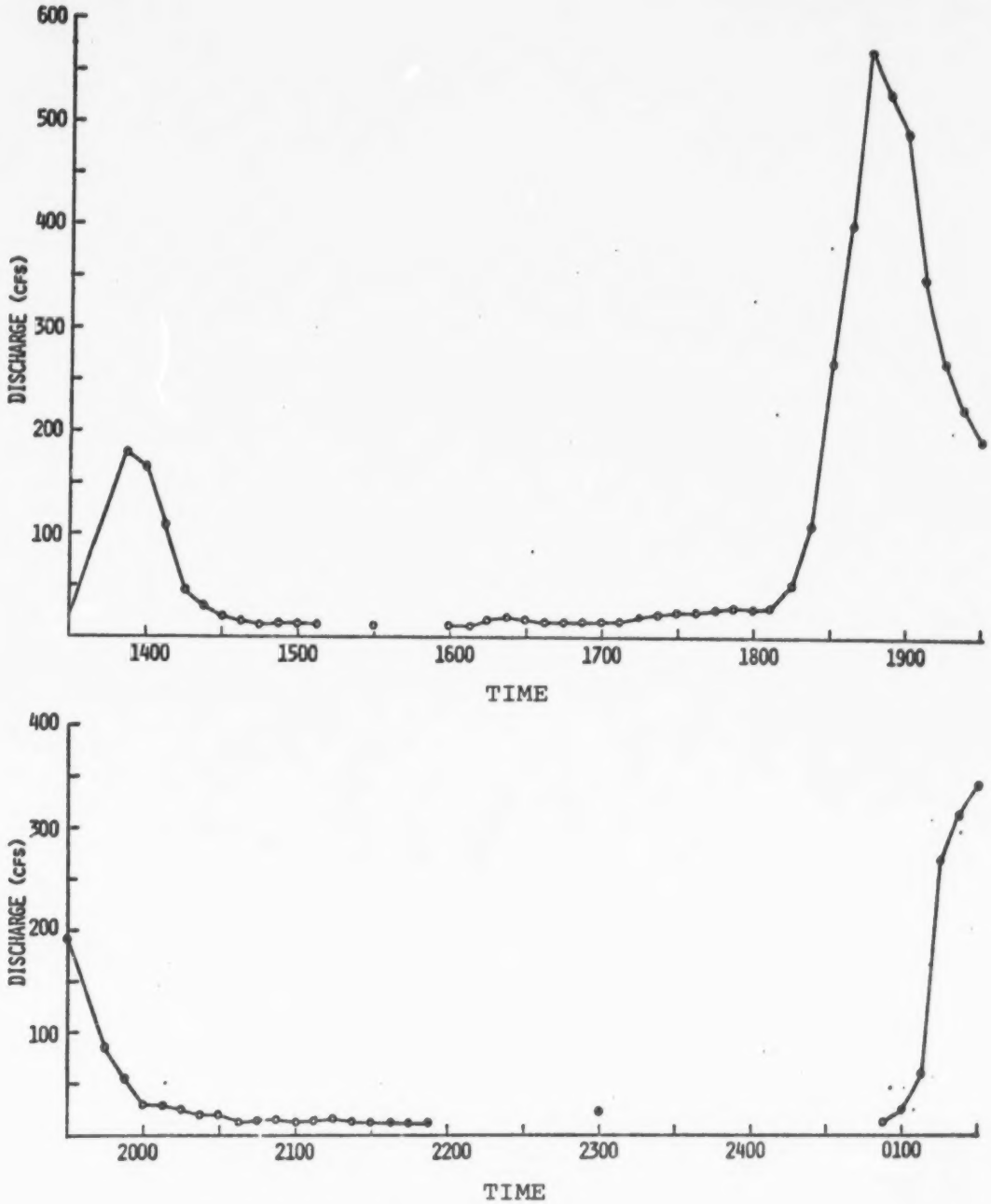


Figure 6-36. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

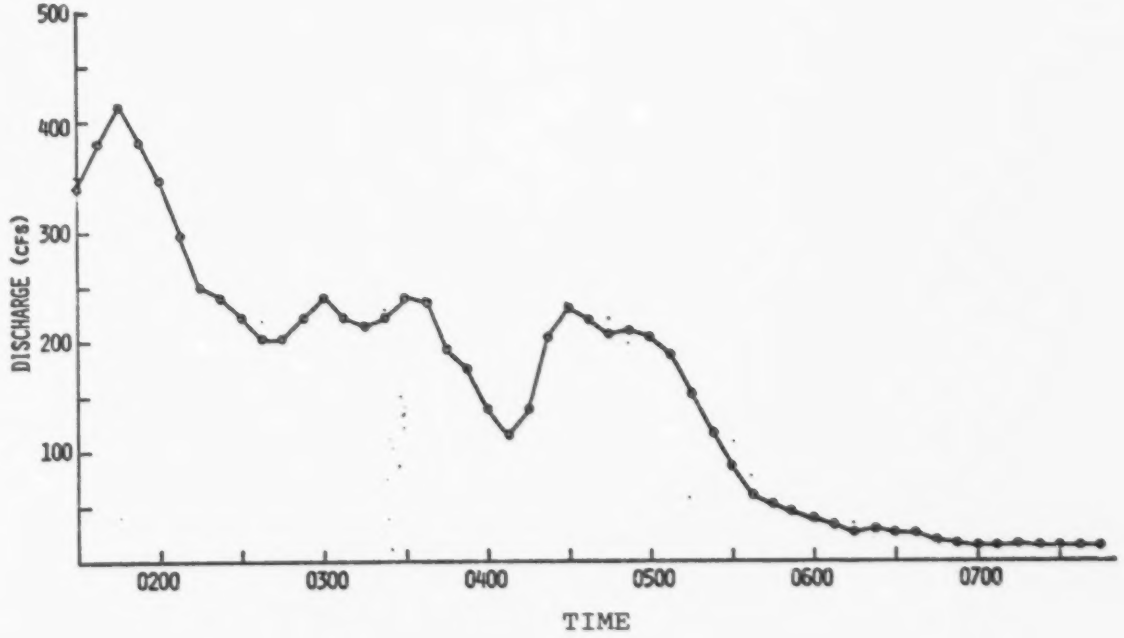


Figure 6-37. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

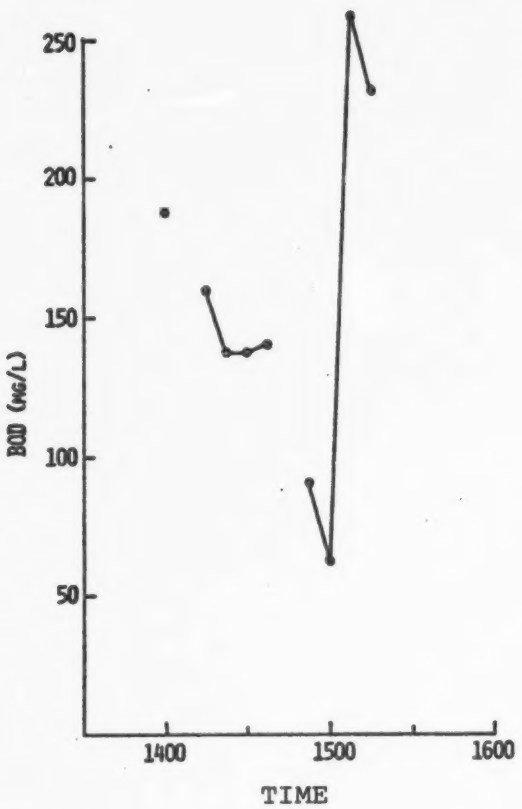
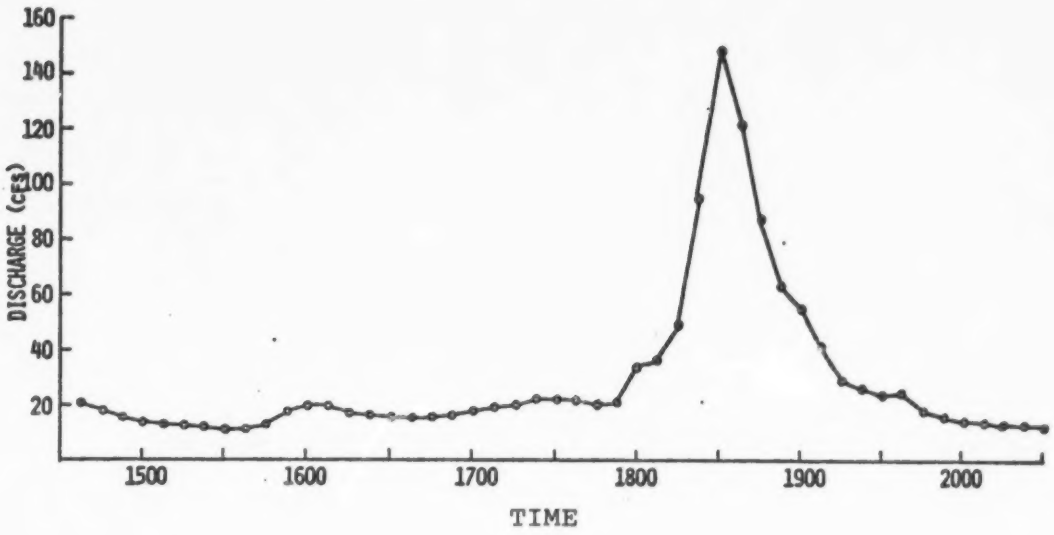


Figure 6-38. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

Table 6-15. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11, 12, 1970 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	BOD
	Laidlaw Gage	Ridge Gage		
1810	.12	.03	41	-
1817:30	.48	.03	64	190
1825	.84	.30	127	75
1832:30	.18	.30	139	78
1840	.06	.30	109	87
1847:30	-	-	77	94
1855	-	-	60	47
1902:30	-	-	51	72
0100	.12	-	80	69
0107:30	.18	.12	71	69
0115	.42	.60	63	94
0122:30	.36	.36	68	138
0130	.12	.24	78	153
0137:30	.12	.12	83	140
0145	.06	.12	76	-
0152:30	.06	.12	71	94
0200	.03	.06	60	72
0207:30	.06	.06	50	50
0215	.06	.06	45	19
0245	.12	.12	46	28
0252:30	.12	.12	41	31
0415	.12	.18	51	31
0422:30	.06	.18	46.5	41
0430	.03	.06	44	10



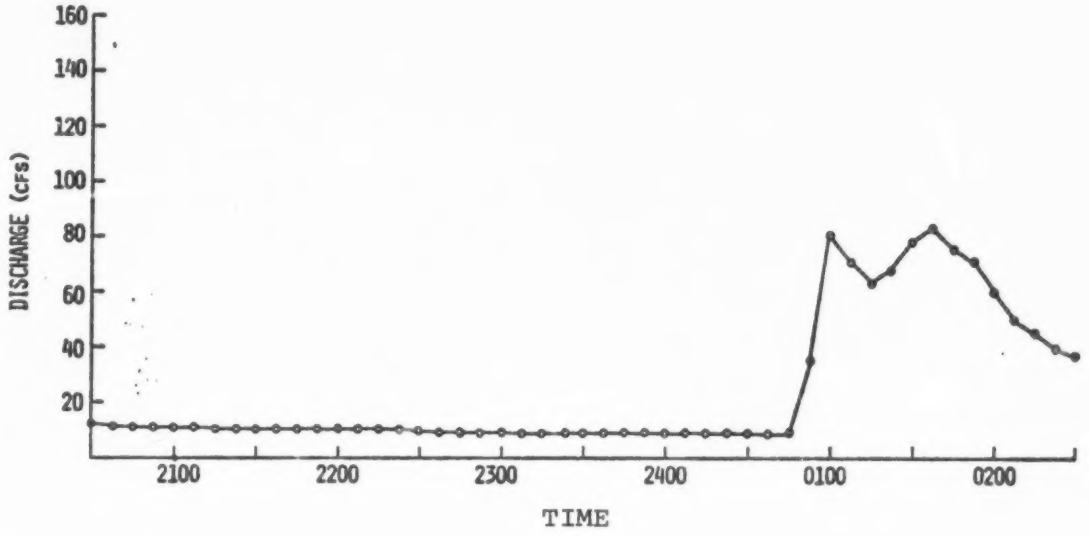
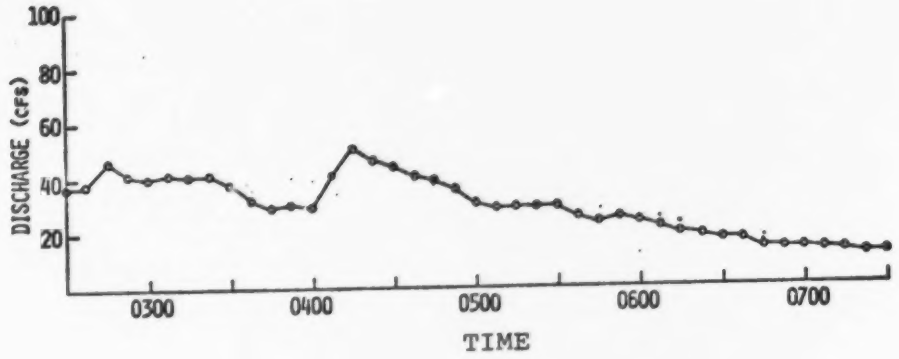


Figure 6-39. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER



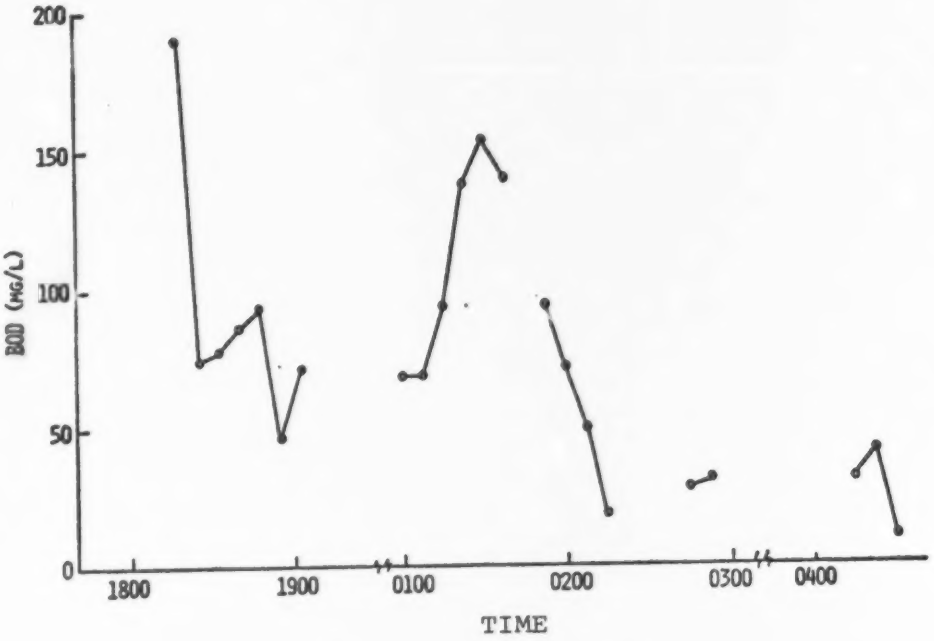


Figure 6-40. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

Table 6-16. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11, 12, 1970 MONITORING STATION: Longview - 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1827:30	.84	-	.3	18	228
1835	.16	-	.3	24	213
1842:30	.06	-	.3	36	-
1850	-	-	-	71	140
1857:30	-	-	-	63	172
1905	-	-	-	74	188
1912:30	-	-	-	65	238
1920	-	-	-	41	242
1927:30	-	-	-	28	248
1935	-	-	-	23	252
1942:30	-	-	-	21	268
1950	-	-	-	18.5	-
0120	.42	-	.6	22	264
0127:30	.42	-	.36	23	254
0135	.12	-	.24	38.5	246
0142:30	.12	-	.12	41.5	225
0150	.06	-	.12	49.5	156
0157:30	.06	-	.12	45	188
0205	.06	-	.06	37	156
0212:30	.03	-	.06	34	172
0220	.18	-	.12	31	144
0227:30	.03	-	.12	27	106
0235	.03	-	.12	-	103
0242:30	.09	-	.12	-	100

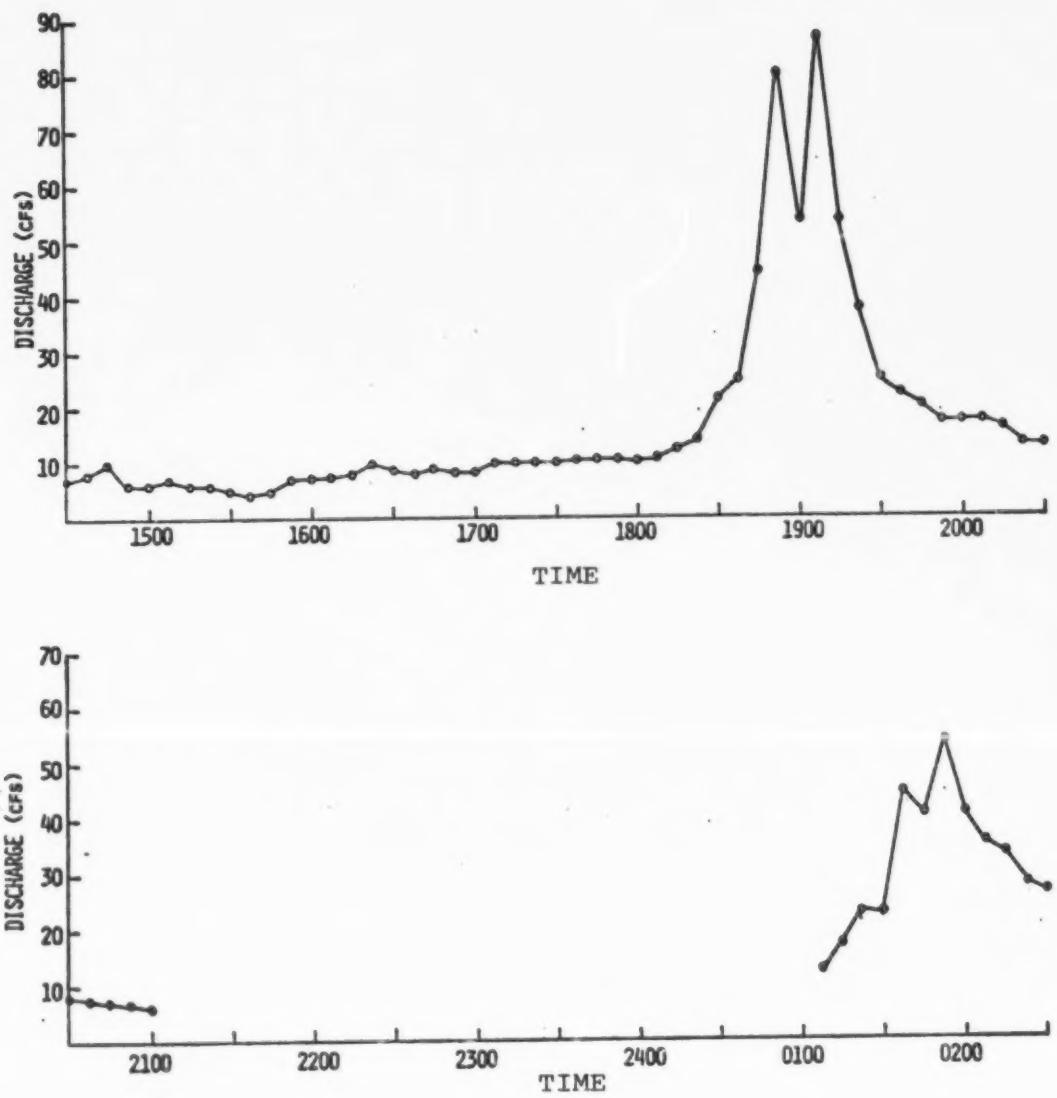
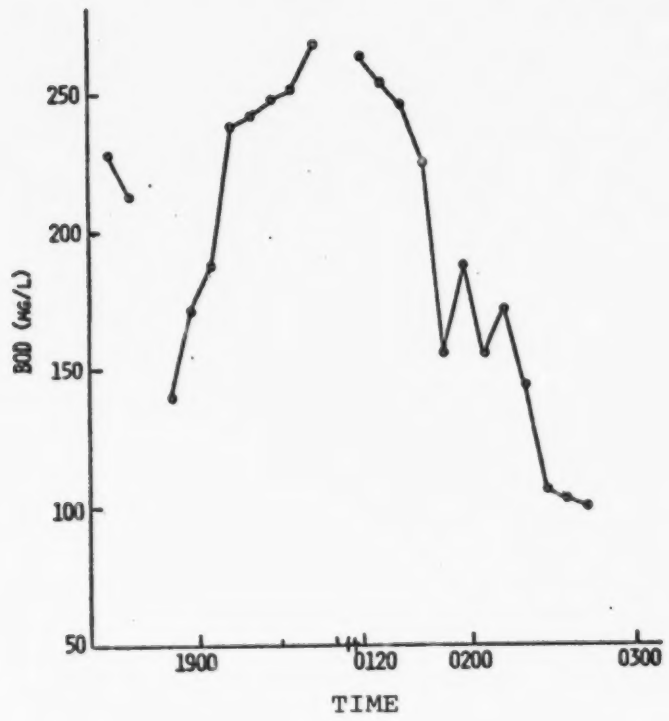


Figure 6-41. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: LONGVIEW -
11' x 9' SEWER



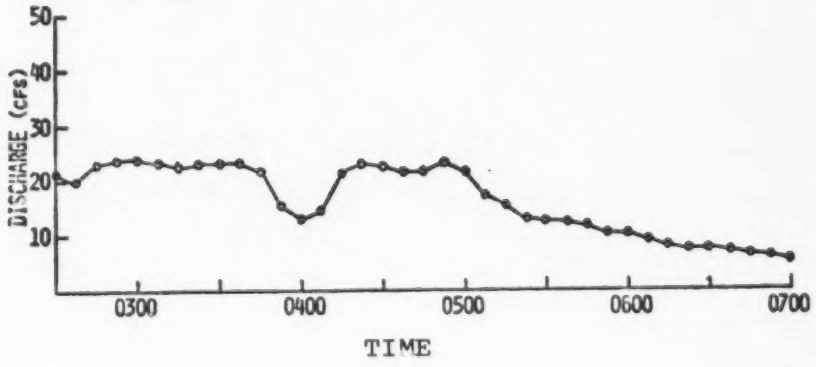
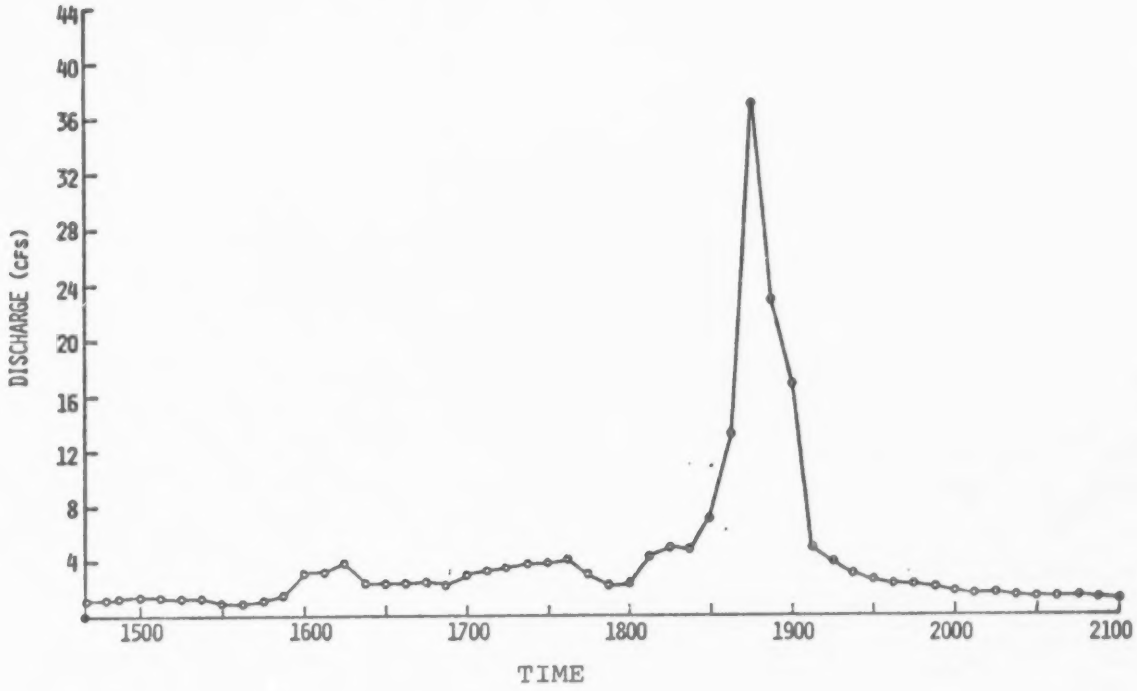


Figure 6-42. RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

Table 6-17. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11, 12th, 1970 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)		Discharge cfs	BOD
	Laidlaw Gage	Ridge Gage		
1830	.84	.3	7.0	53
1837:30	.12	.3	13.2	247
1845	.06	.3	37	203
1852:30	-	0.0	23	153
1900	-	-	17	225
0055	.42	.18	8.6	184
0102:30	.12	-	12	138
0110	.12	.48	11	106
0117:30	.06	.60	10.2	100
0125	.42	.36	12	88
0132:30	.12	.24	12.8	103
0140	.12	.10	12.4	28



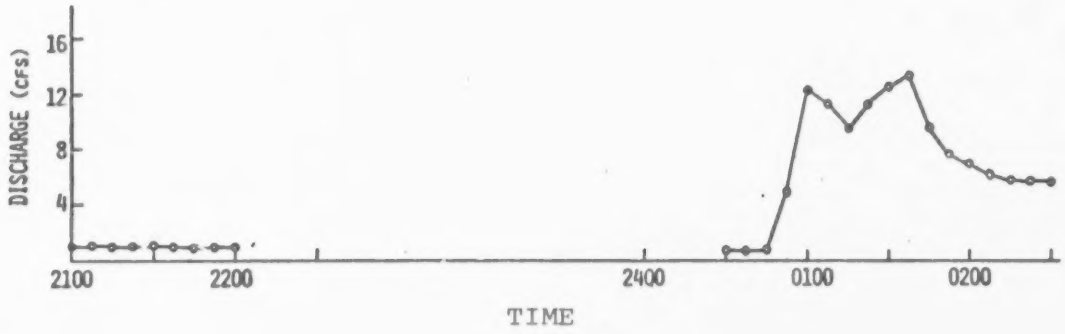


Figure 6-43. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: BANK -
78" SEWER

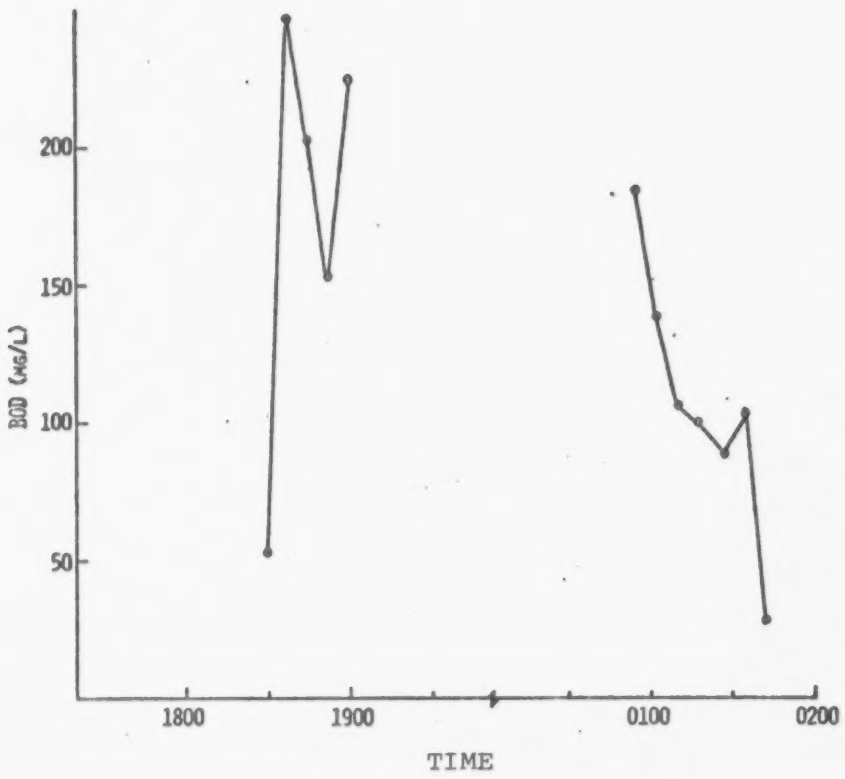


Figure 6-44. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 11 & 12, 1970
MONITORING STATION: BANK -
78" SEWER

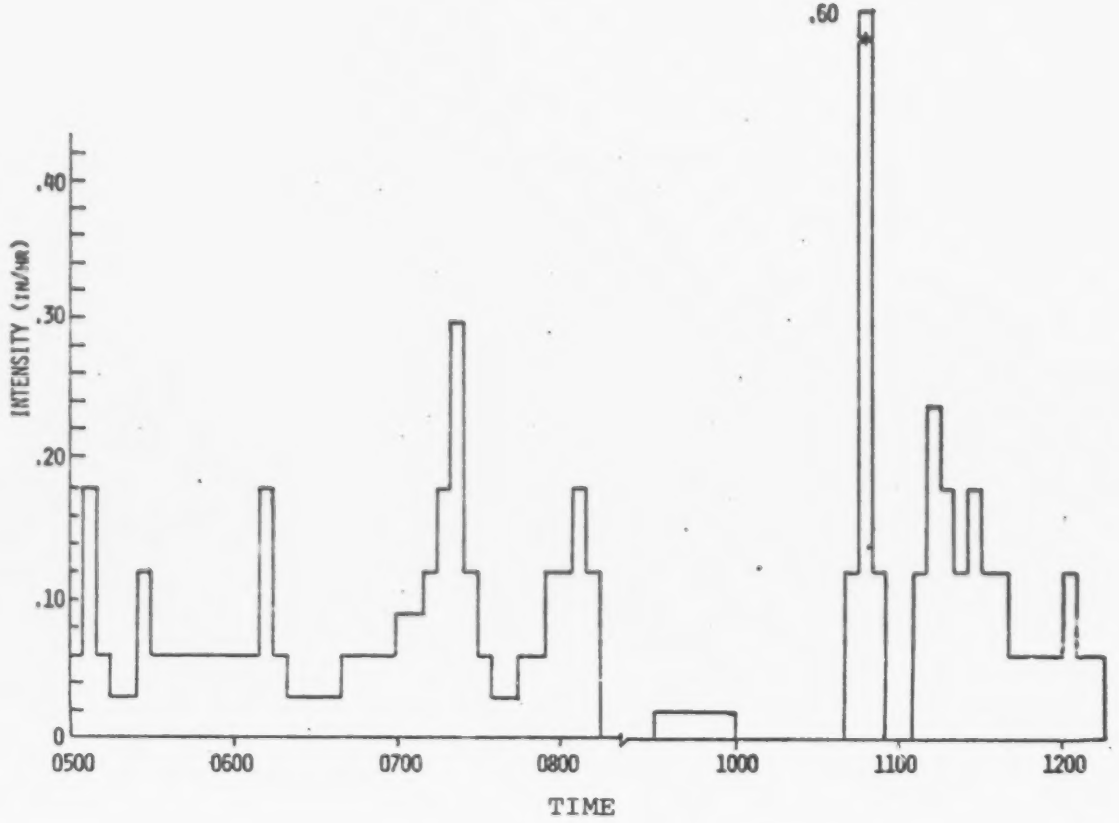


Figure 6-45. RAIN OF DEC. 16 & 17, 1970
LAIDLAW RAINGAGE
HYETOGRAPH

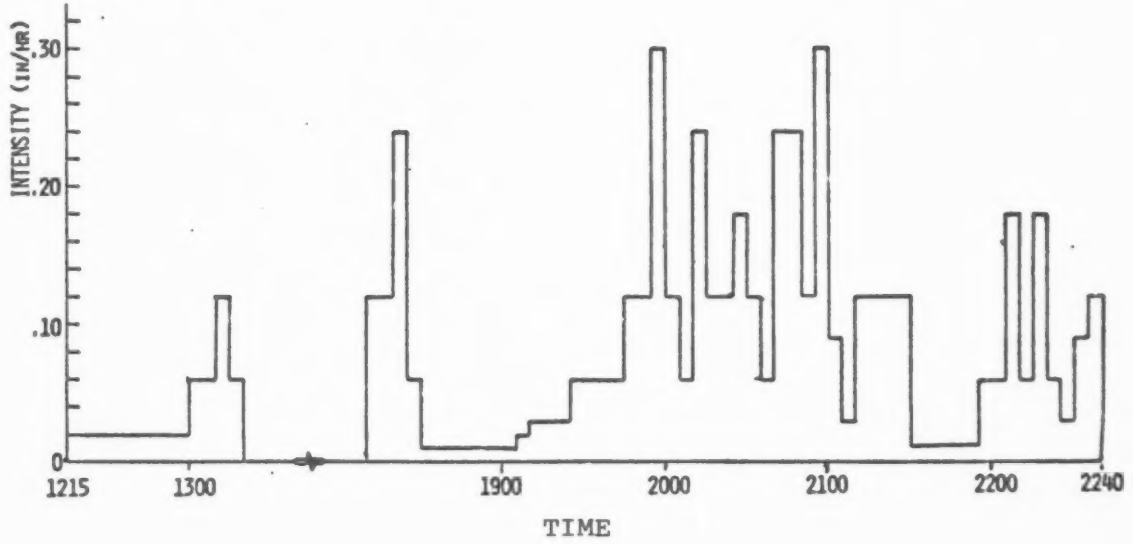


Figure 6-46. RAIN OF DEC. 16 & 17, 1970
LAIDLAW RAINGAGE
HYETOCRAPH

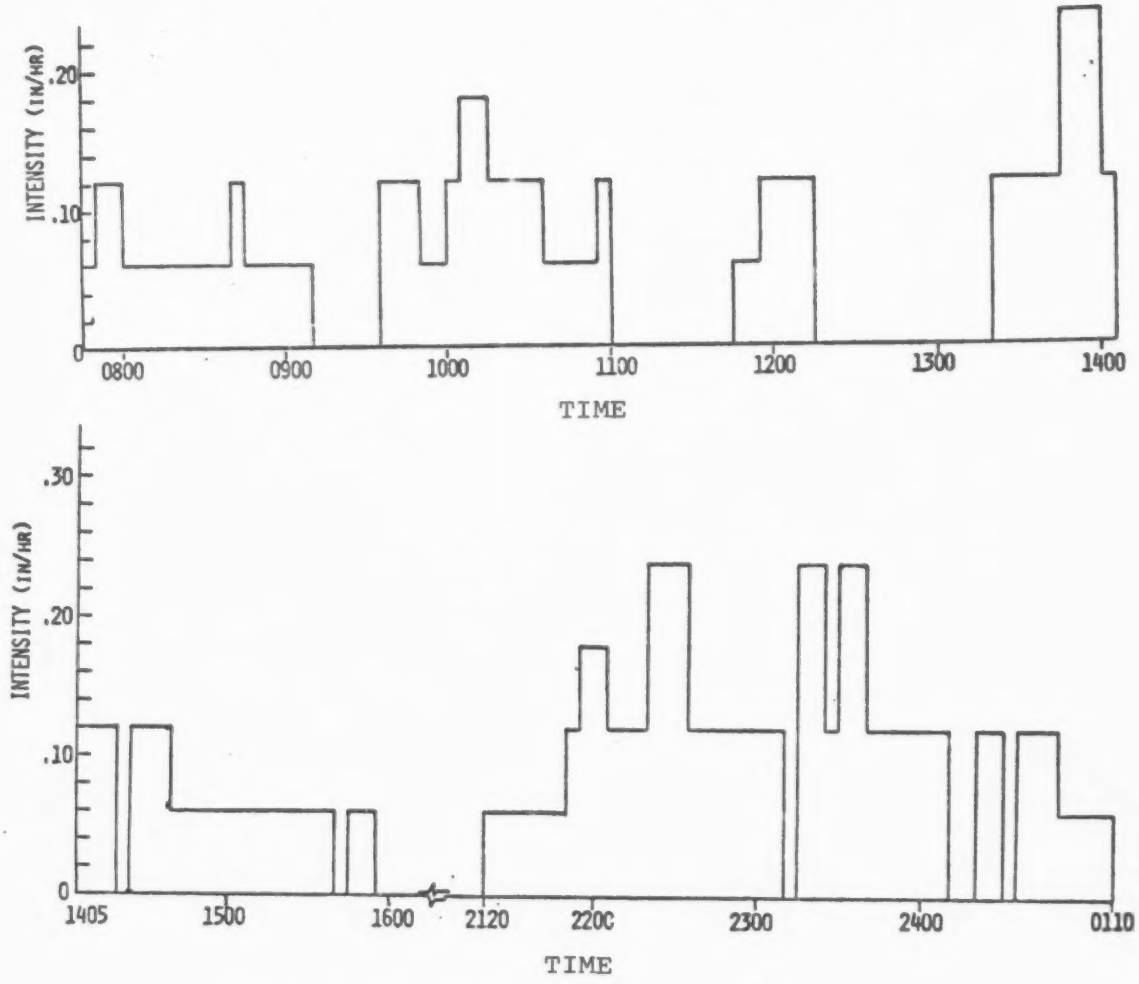


Figure 6-47. RAIN OF DEC. 16 & 17, 1970
RIDGE RAINGAGE
HYETOGRAPH

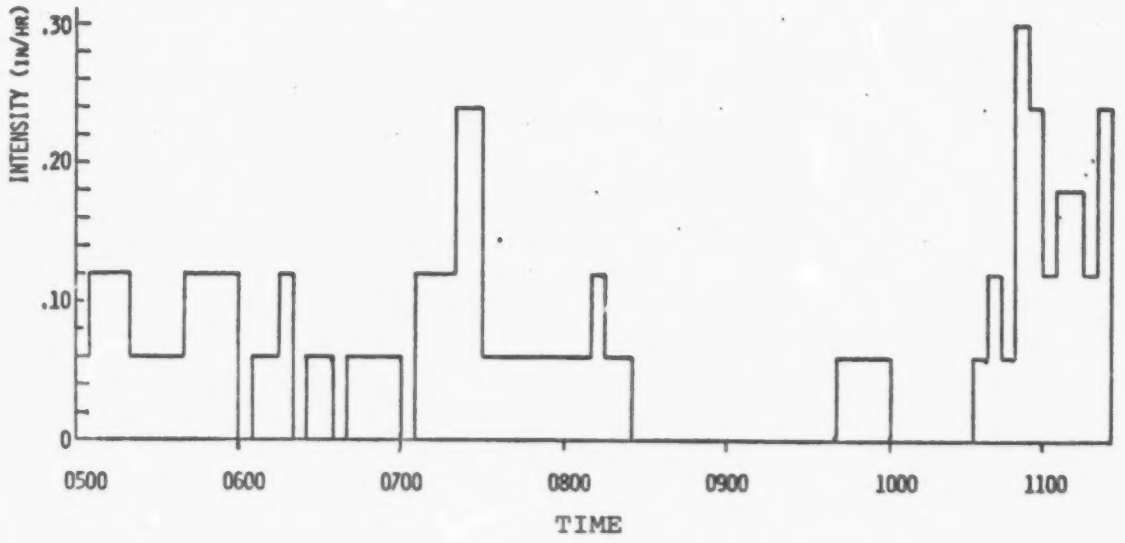


Figure 6-48. RAIN OF DEC. 16 & 17, 1970
WOODWARD RAINGAGE
HYETOGRAPH

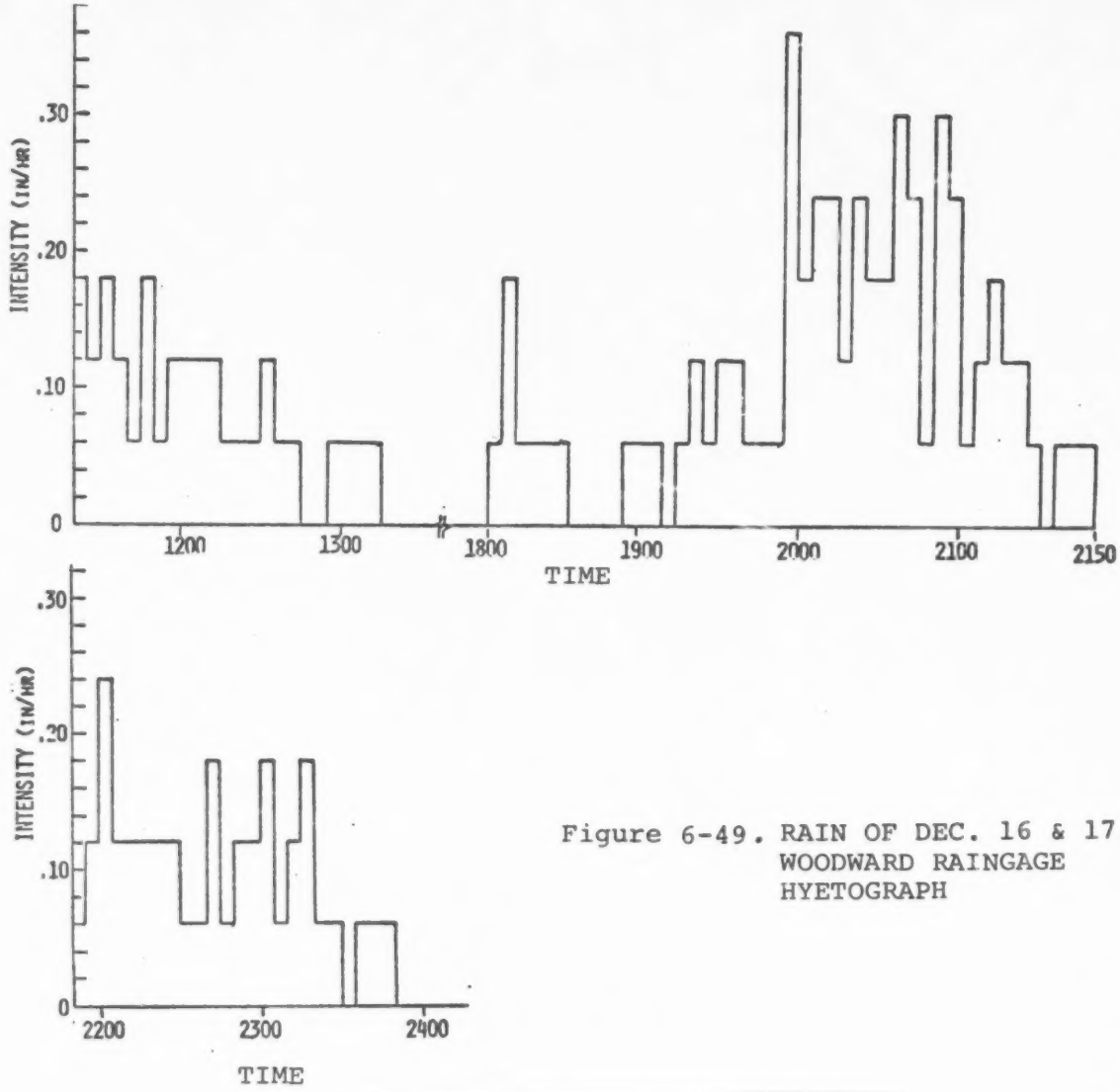


Figure 6-49. RAIN OF DEC. 16 & 17, 1970
WOODWARD RAINGAGE
HYETOGRAPH

Table 6-18. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 16, 1970 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
0745	.06	.06	.06	108	-
0752:30	.06	.06	.12	193	169
0800	.12	.06	.12	240	-
0807:30	.18	.06	.06	202	144
0815	.12	.12	.06	181	169
0822:30	-	.06	.06	152	141
0830	-	-	.06	165	97
0837:30	-	-	.06	152	81
0845	-	-	.12	127	69
1055	.12	.24	.12	100	114
1102:30	-	.18	-	266	81
1110	.24	.18	-	301	100
1117:30	.18	.24	-	305	131
1125	.18	.18	-	310	175
1132:30	.12	.18	-	316	135
1140	.12	.12	-	300	114
1147:30	.06	.18	.06	260	78
1155	.06	.12	.12	247	91
1202:30	.12	.12	.12	244	11
1210	.06	.12	.12	237.5	87
1217:30	.02	.06	-	227	84
1225	.02	.06	-	220	91
1232:30	.02	.12	-	205	128
1240	.02	.06	-	177	169

Table 6-19. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 16, 1970 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1935	.06	.12	-	130	253
1942:30	.06	.06	-	170	253
1950	.12	.06	-	215	221
1957:30	.03	.36	-	242	210
2005	.12	.24	-	268	213
2012:30	.24	.24	-	300	219
2020	.12	.24	-	320	932
2027:30	.18	.18	-	322	210
2035	.12	.30	-	330	219
2042:30	.24	.24	-	355	213
2050	.24	.30	-	367	203
2057:30	.12	.24	-	353	191
2105	.09	.12	-	337.5	165
2112:30	.12	.18	-	340	150
2120	.12	.12	.06	340	137
2127:30	.12	.06	.06	325	131
2135	.012	.06	.06	303	113
2142:30	.012	.06	.06	278	75
2150	.012	.06	.12	251	87
2157:30	.06	.12	.18	241	100
2205	.18	.24	.18	246	75
2212:30	.06	.12	.12	276	72
2220	.18	.12	.24	280	100
2227:30	.03	.12	.24	272	97

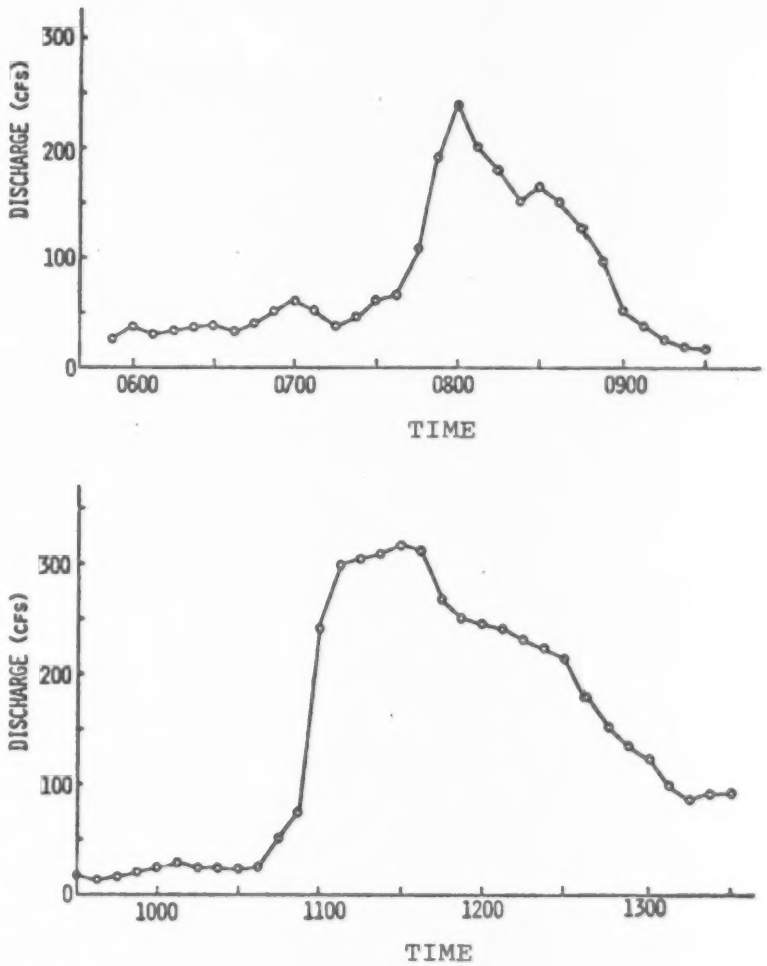


Figure 6-50. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

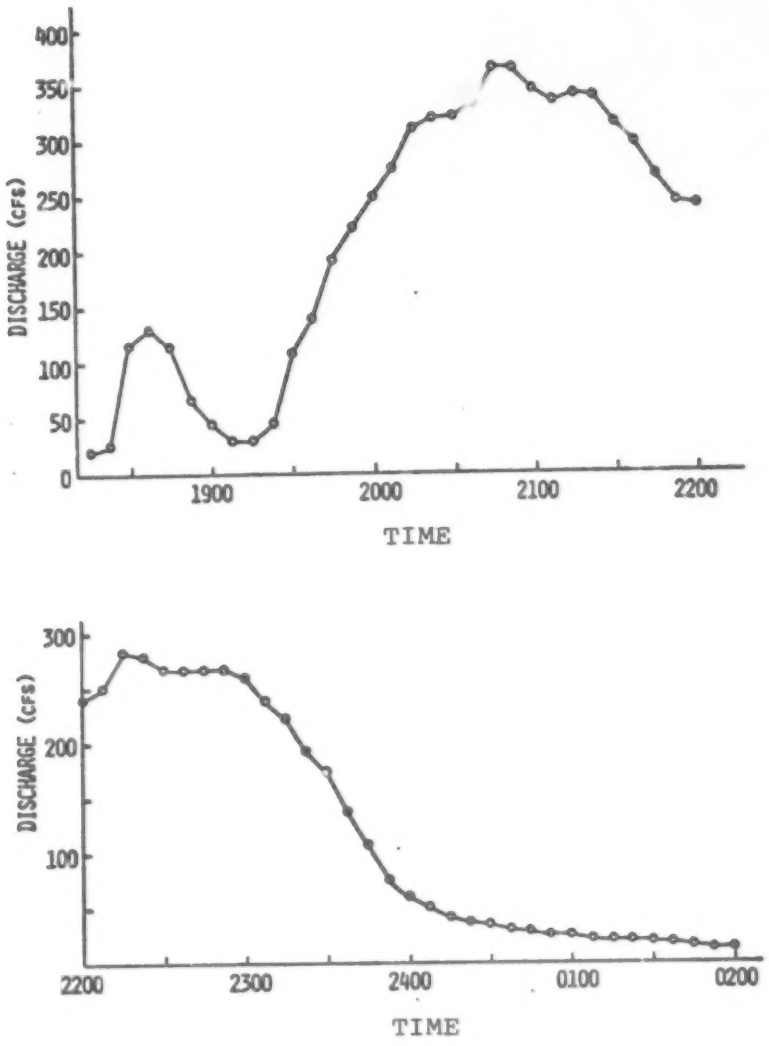


Figure 6-51. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16 & 17, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

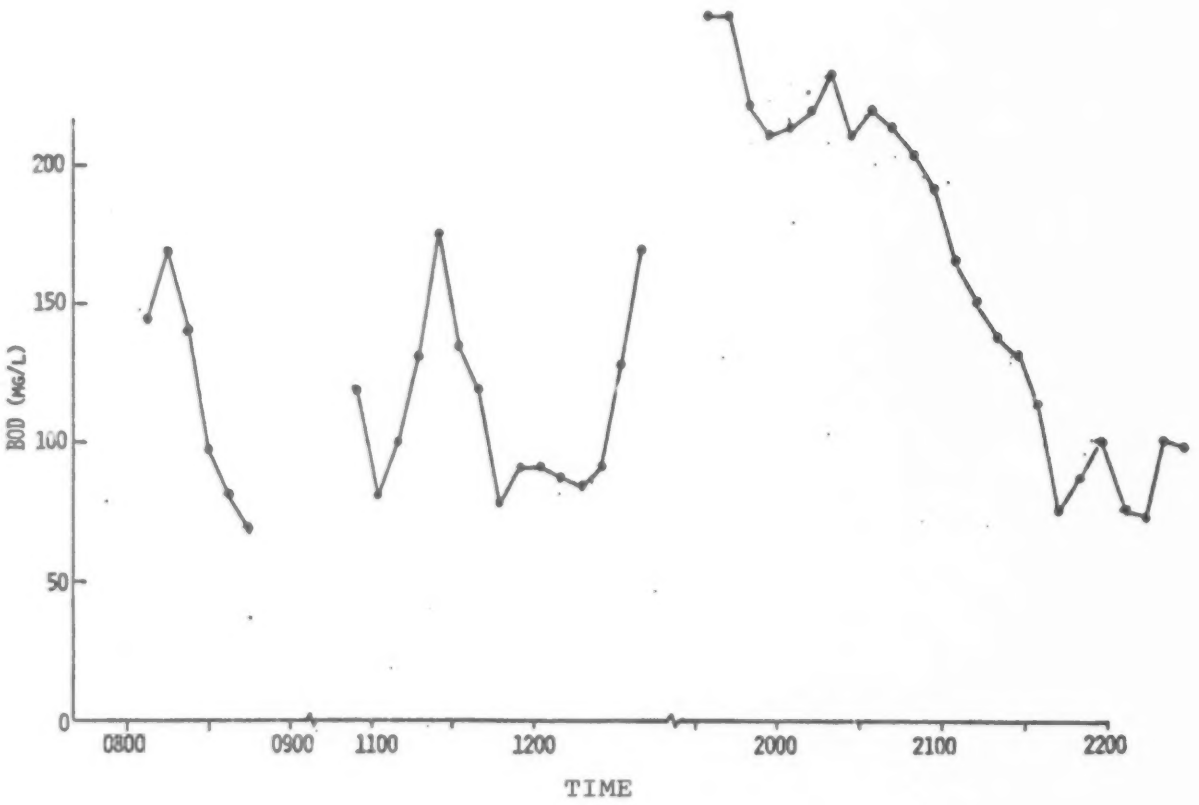


Figure 6-52. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER

Table 6-20. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 16, 1970 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
0650	.06	.06	-	26	-
0657:30	.06	.06	-	29	160
0705	.09	.12	-	28	67
0740	.03	.06	-	27	81
0747:30	.06	.06	.06	39.5	50
0755	.12	.06	.12	50.5	53
0802:30	.12	.06	.06	48	63
0810	.18	.12	.06	39	144
0817:30	-	.06	.06	34	66
0825	-	.06	.06	29	66
0832:30	-	-	.06	30	66
0840	-	-	.12	31	106
0847:30	-	-	.06	28	31
1135	.12	.18	-	56	72
1142:30	.06	.06	-	55.7	97
1150	.06	.18	.06	53	88
1157:30	.06	.12	.12	47	97
1205	.12	.12	.12	41.5	94
1212:30	.06	.12	.12	41.5	91
1220	.02	.06	-	39.5	97
1227:30	.02	.06	-	35.7	110
1235	.02	.12	-	30	97
1242:30	.02	.06	-	29	88
1250	.02	-	-	25	78

Table 6-21. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 16, 1970 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1822:30	.24	.06	-	23.7	88
1830	.06	.06	-	35.5	38
1837:30	.01	0.0	-	34.7	31
1845	.01	-	-	32	39
1930	.06	.12	-	29	44
1937:30	.06	.12	-	29	28
1945	.12	.06	-	30.5	22
1952:30	.12	.06	-	35.5	25
2000	.3	.36	-	43	22
2007:30	.12	.18	-	50	19
2015	.24	.24	-	52	19
2022:30	.12	.24	-	55.5	-
2030	.18	.18	-	55.5	28
2037:30	.06	.30	-	55.5	28
2045	.24	.24	-	63.5	34
2052:30	.12	.30	-	66	34
2100	.3	.24	-	69	22
2107:30	.03	.12	-	64.5	19
2115	.12	.18	-	63.5	34
2122:30	.12	.12	.06	63.5	19
2130	.12	.06	.06	63.5	19
2137:30	.012	.06	.06	63.5	10
2145	.012	.06	.06	50	19
2152:30	.012	.06	.12	45	28

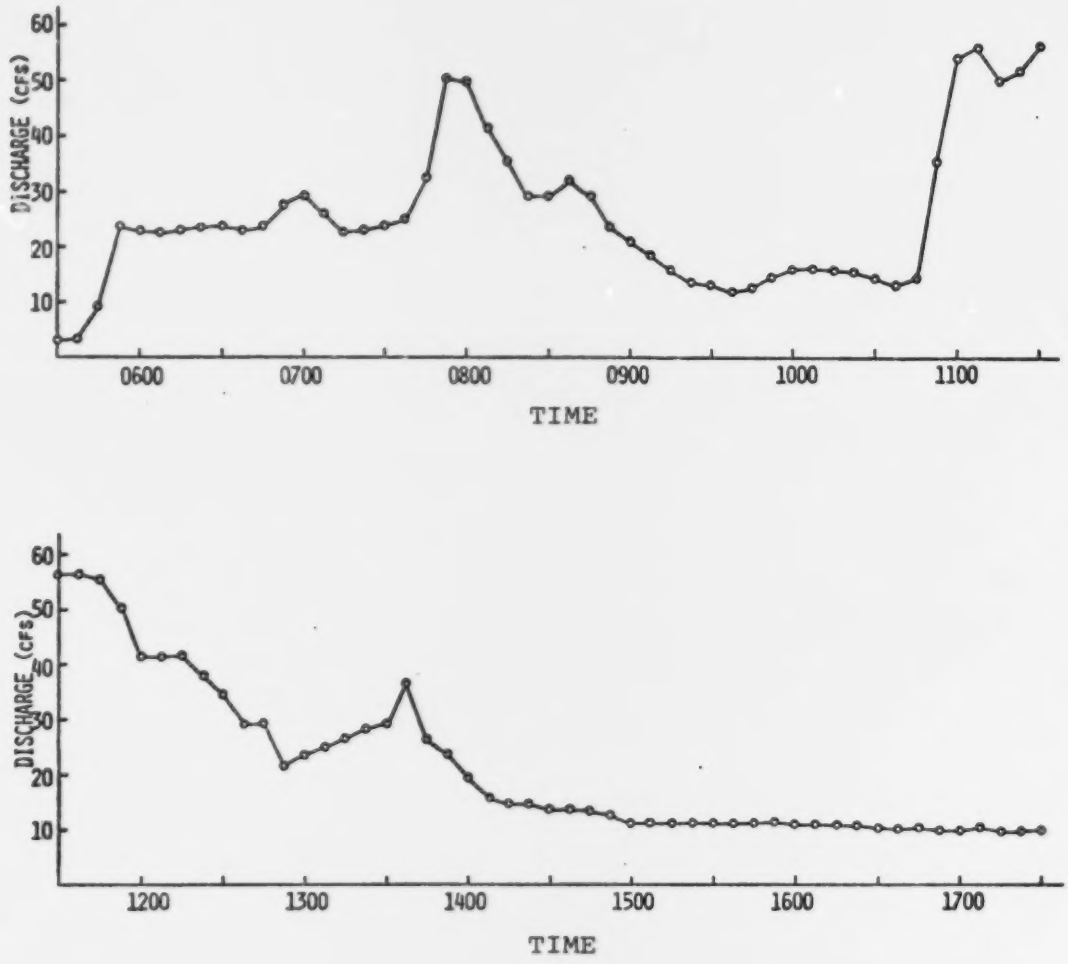
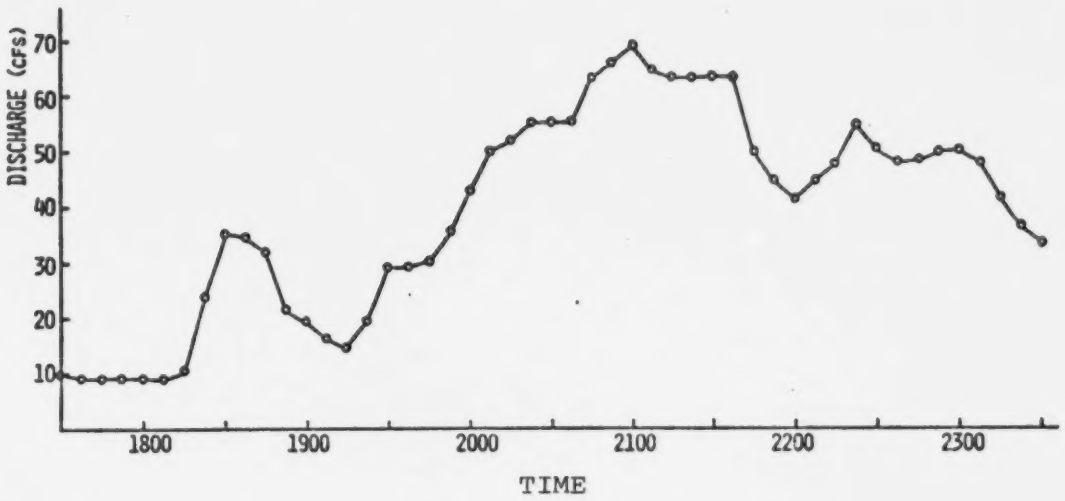


Figure 6-53. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: LONGVIEW
12' x 9' SEWER



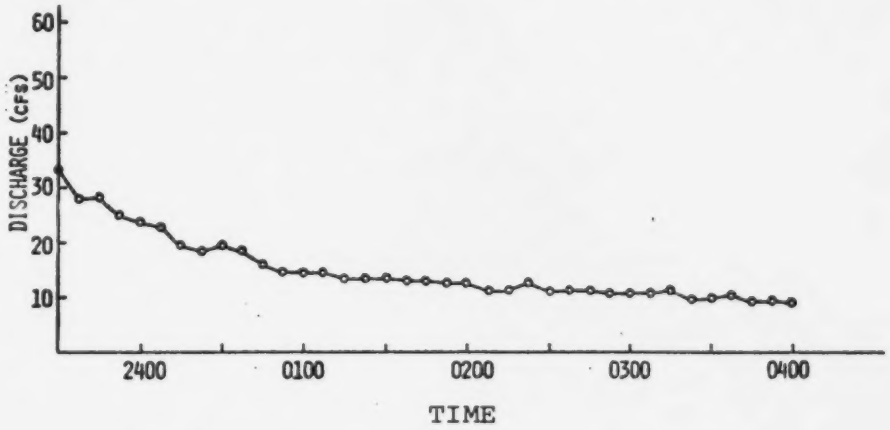


Figure 6-54. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16 & 17, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

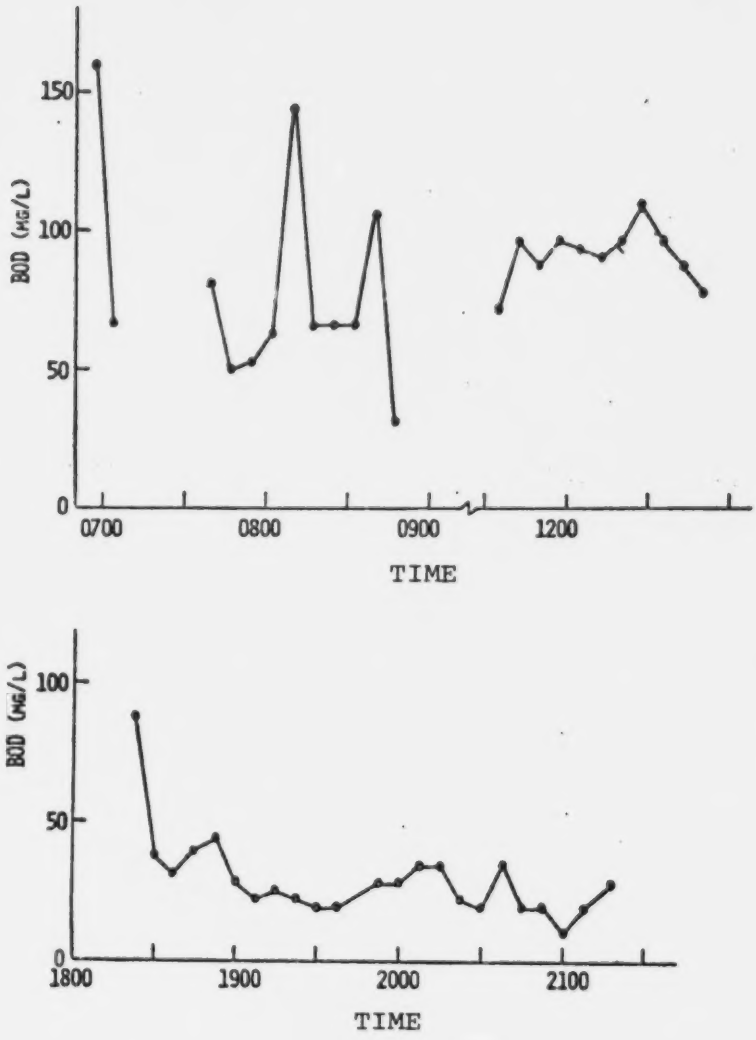


Figure 6-55. RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: LONGVIEW
12' x 9' SEWER

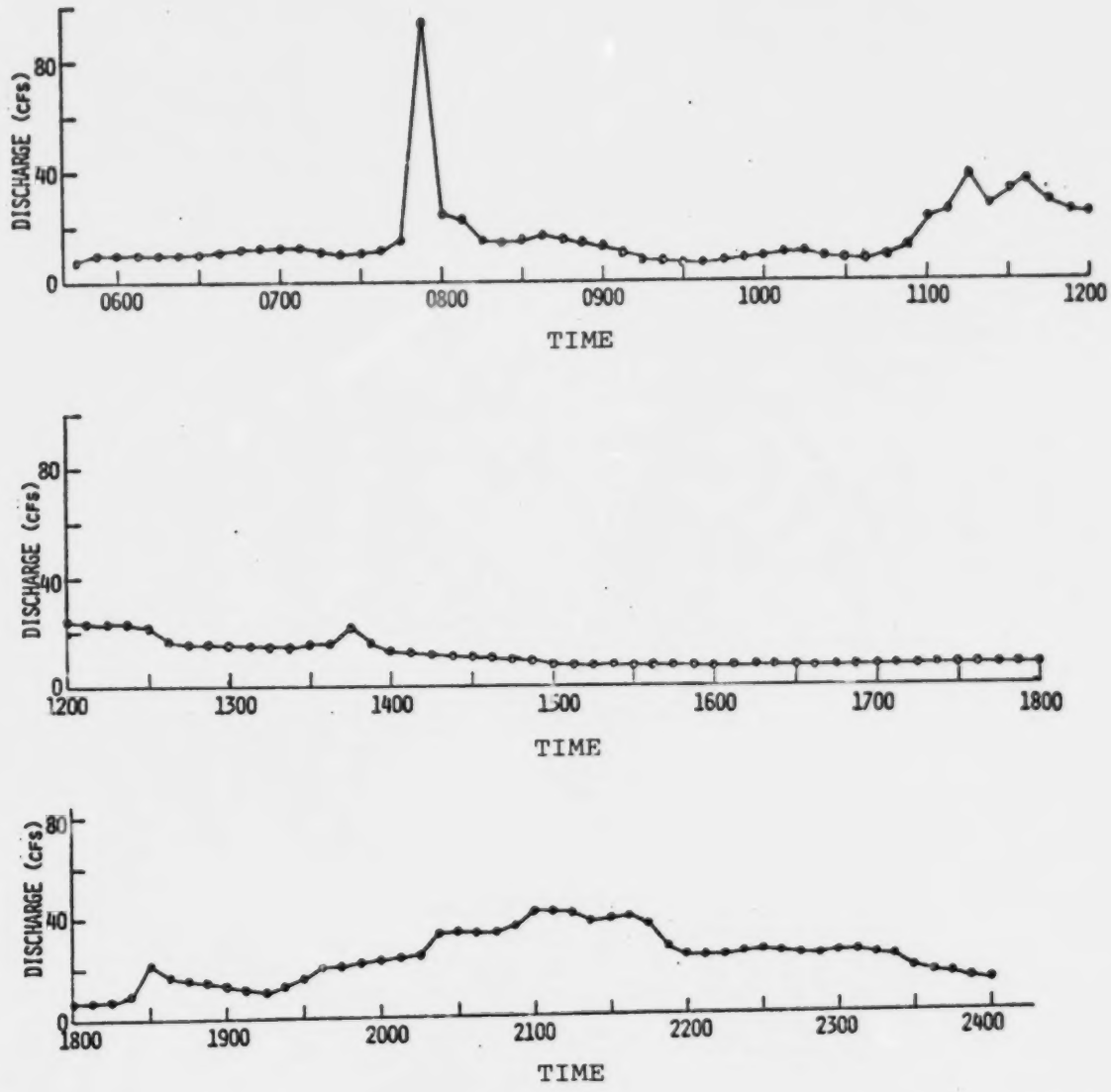


Figure 6-56. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: LONGVIEW
11' x 9' SEWER

Table 6-22. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

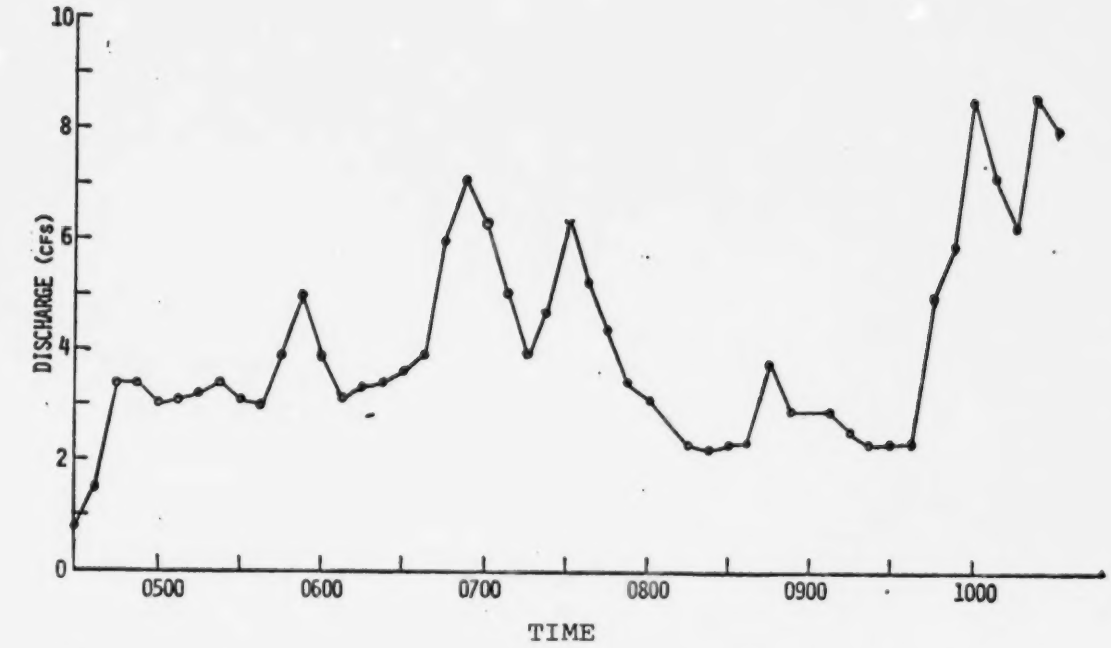
DATE OF STORM: December 16, 1970 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
1250	.02	-	-	2.6	-
1257:30	.02	.06	-	2.4	180
1305	.06	.06	-	2.25	50
1312:30	.12	.06	-	2.25	41
1320	-	-	.12	2.4	44
1327:30	-	-	.12	2.25	44
1335	-	-	.12	2.10	66
1342:30	-	-	.12	2.10	69
1350	-	-	.26	2.10	207

Table 6-23. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 16, 1970 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)		BOD
	Laidlaw Gage	Woodward Gage	
1825	.24	.06	140
1832:30	.01	.06	50
1840	.01	-	38
1847:30	.01	-	56
1855	.01	.06	56
1902:30	.01	.06	63
1910	.03	.06	81
1917	.03	-	72
1922:30	.03	.12	63
1930	.06	.12	31
1937:30	.06	.12	19



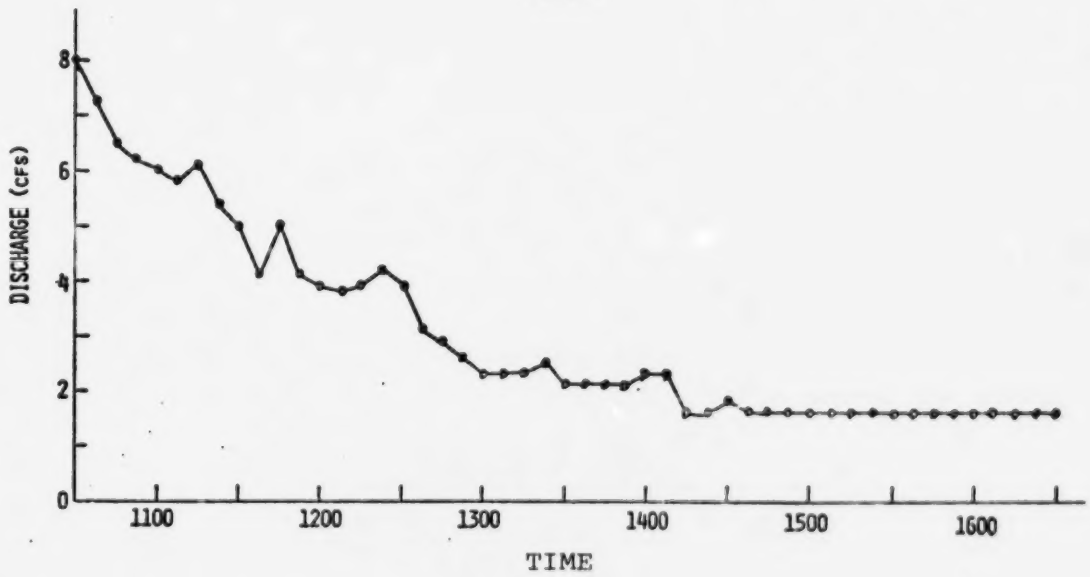


Figure 6-57. RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: BANK - 78" SEWER

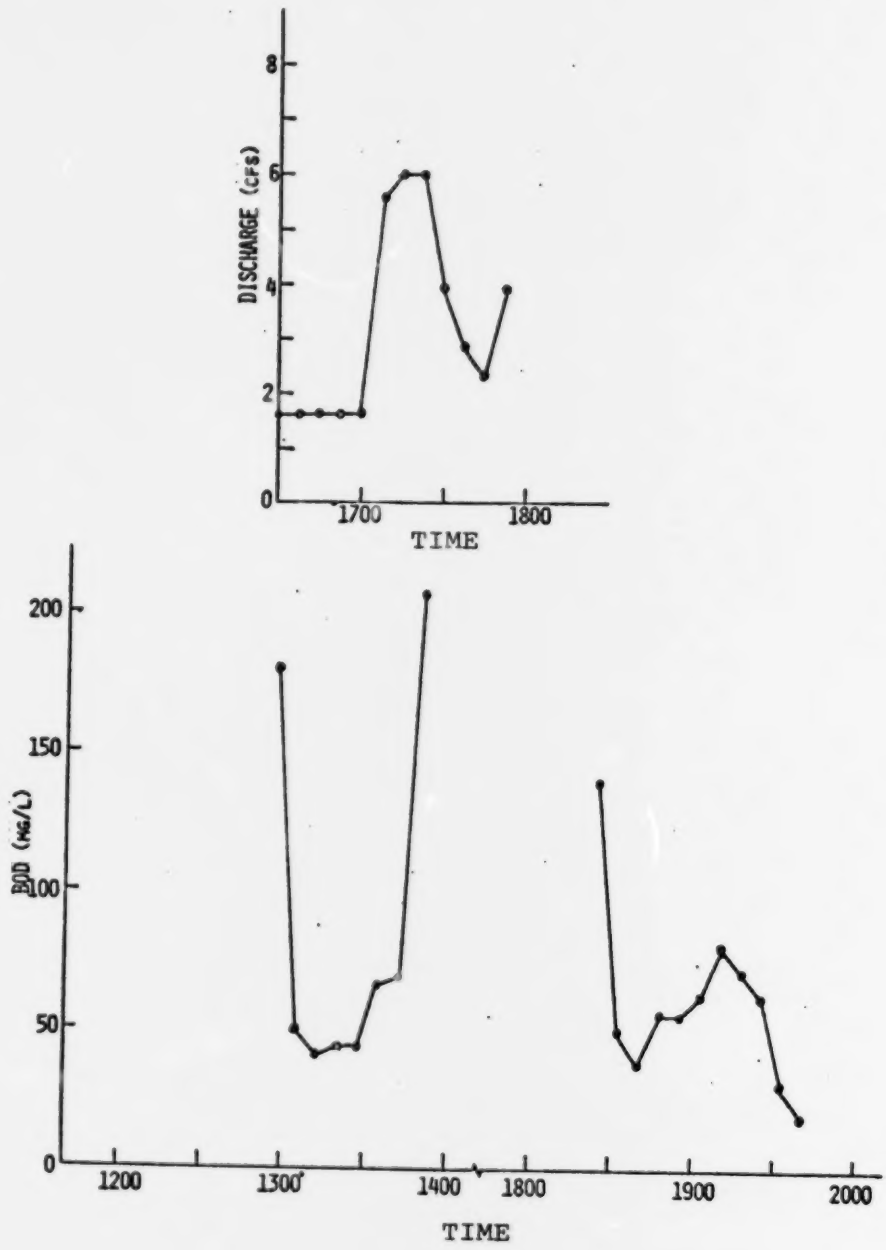
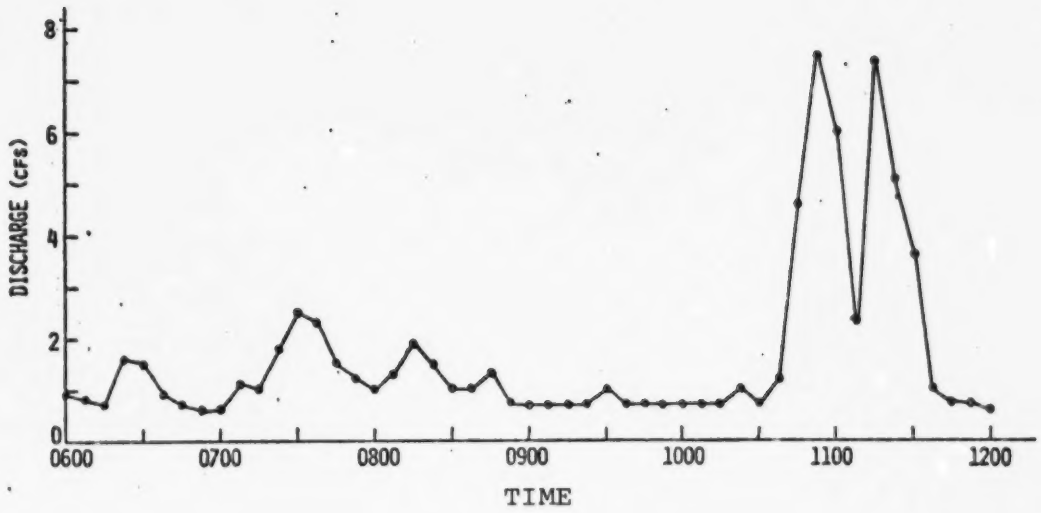


Figure 6-58 RUNOFF QUALITY & QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: BANK - 78" SEWER



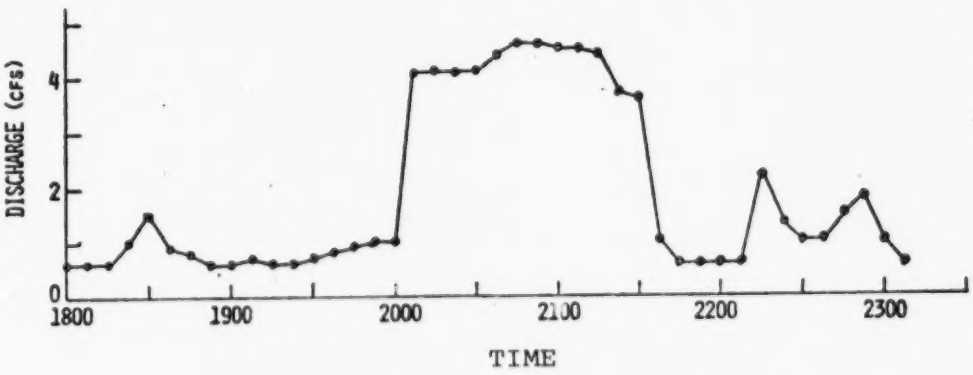


Figure 6-59 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 16, 1970
MONITORING STATION: BANK - 54" SEWER

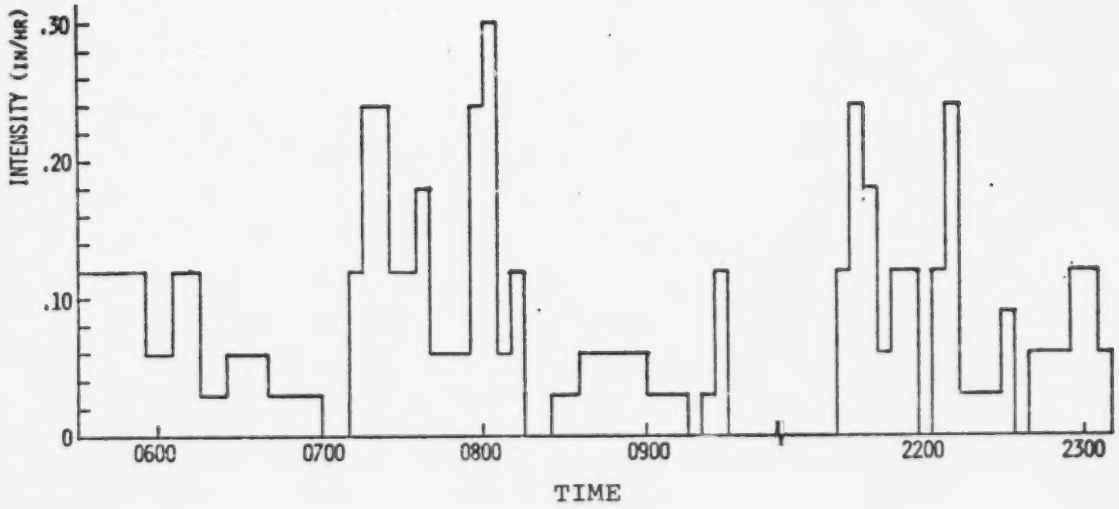


Figure 6-60 RAINFALL OF DECEMBER 21 & 22, 1970
LAIDLAW RAINGAGE
HYETOGRAPH

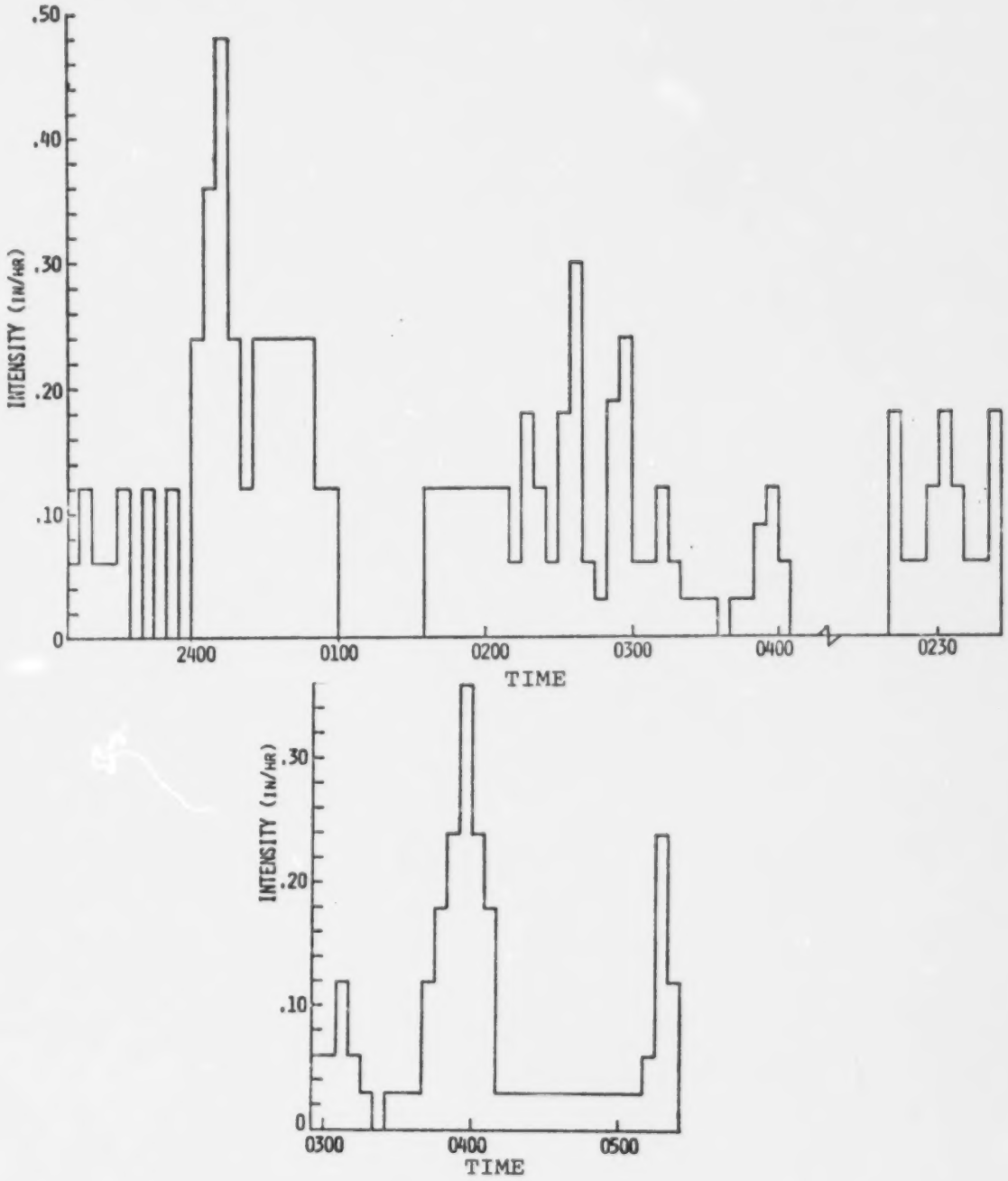


Figure 6-61 RAIN OF DECEMBER 21 & 22, 1970
LAIDLAW RAINGAGE
HYETOGRAPH

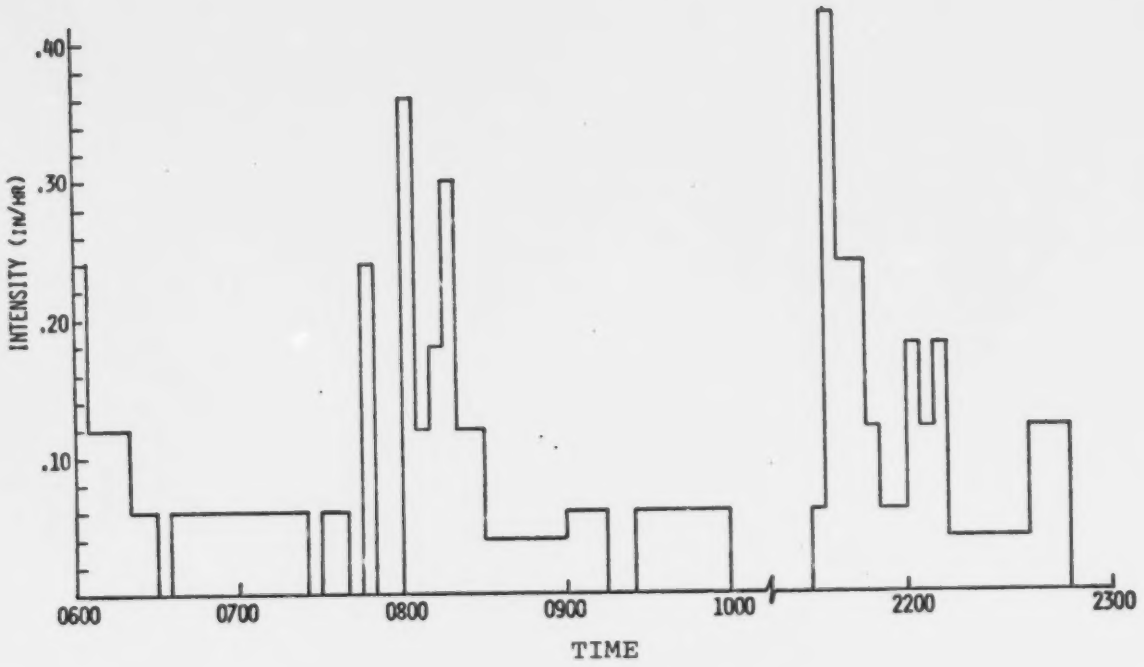


Figure 6-62 RAIN OF DEC. 21 & 22, 1970
RIDGE RAINGAGE
HYETOGRAPH

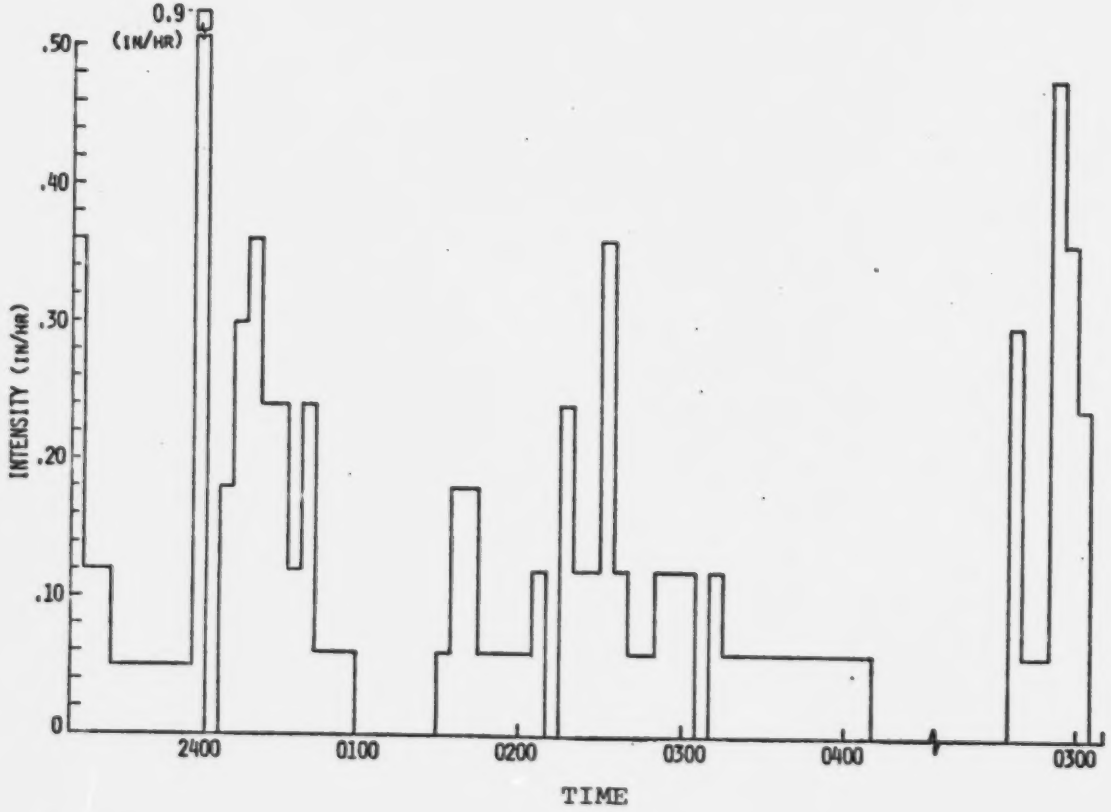


Figure 6-63 RAIN OF DEC. 21 & 22, 1970
RIDGE RAINGAGE
HYETOGRAPH

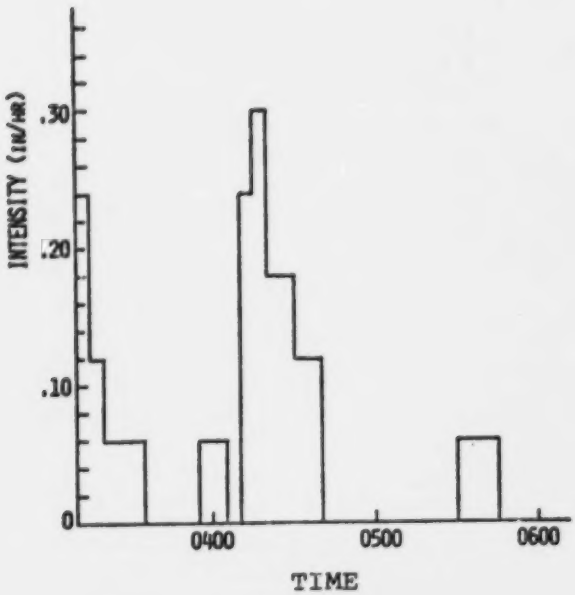


Figure 6-64 RAIN OF DEC. 21 & 22, 1970
RIDGE RAINGAGE
HYETOGRAPH

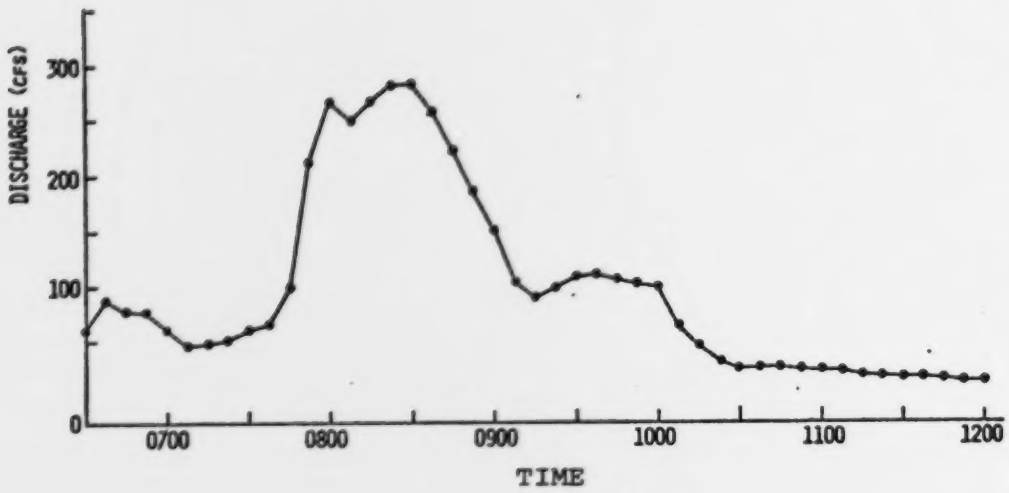
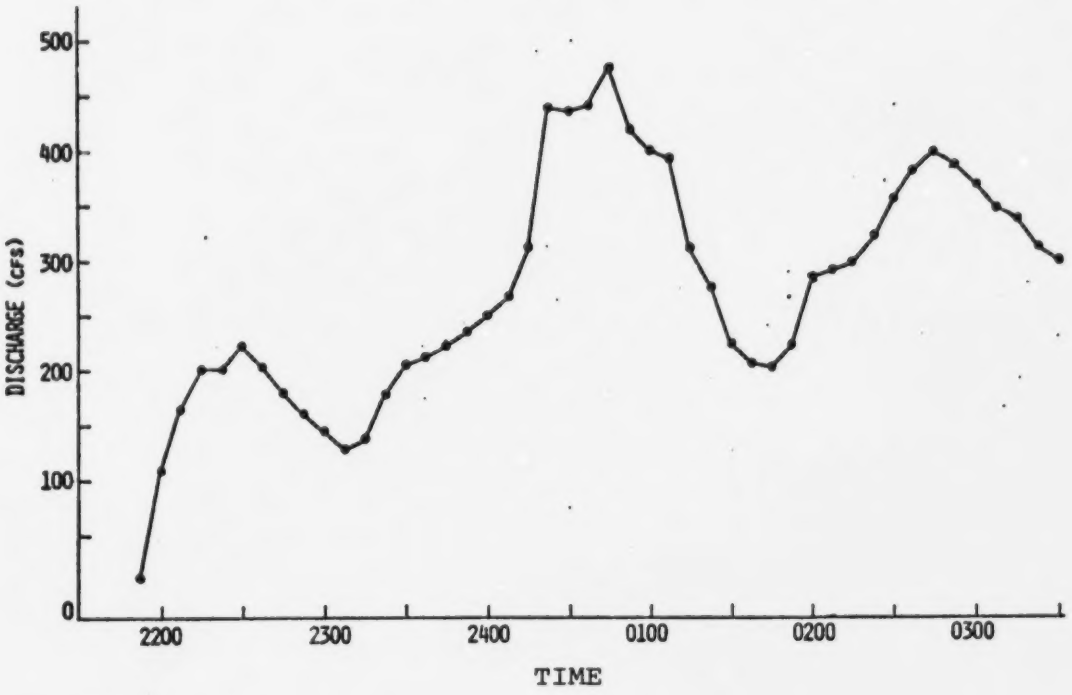


Figure 6-65 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 21 & 22, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER



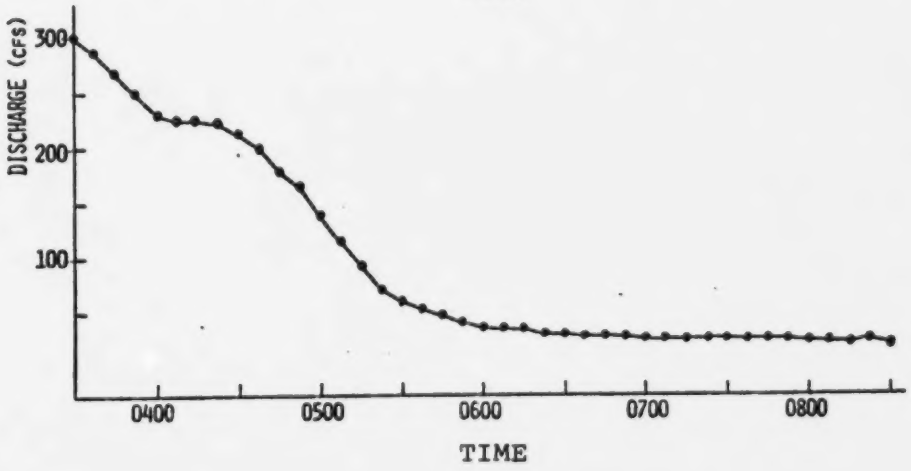
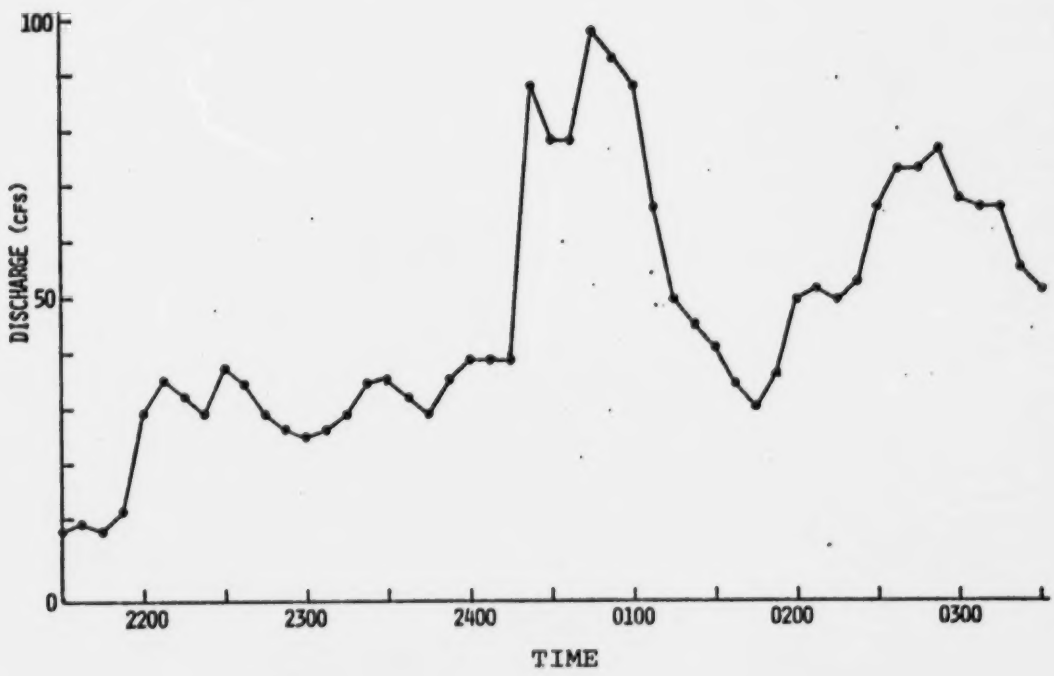


Figure 6-66 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 21 & 22, 1970
MONITORING STATION: OUTLET -
10' x 15' SEWER



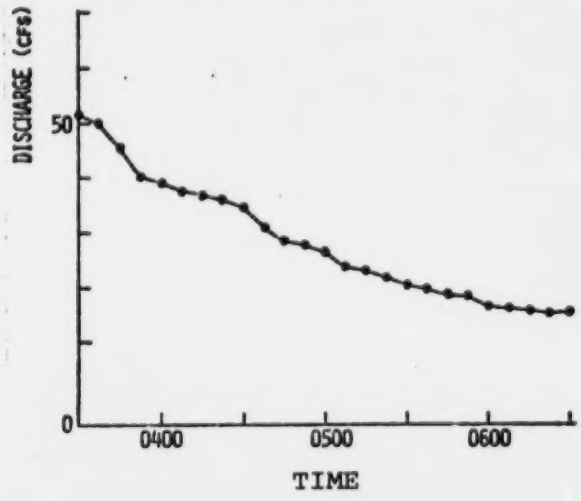


Figure 6-67 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 21 & 22, 1970
MONITORING STATION: LONGVIEW
12' x 9' SEWER

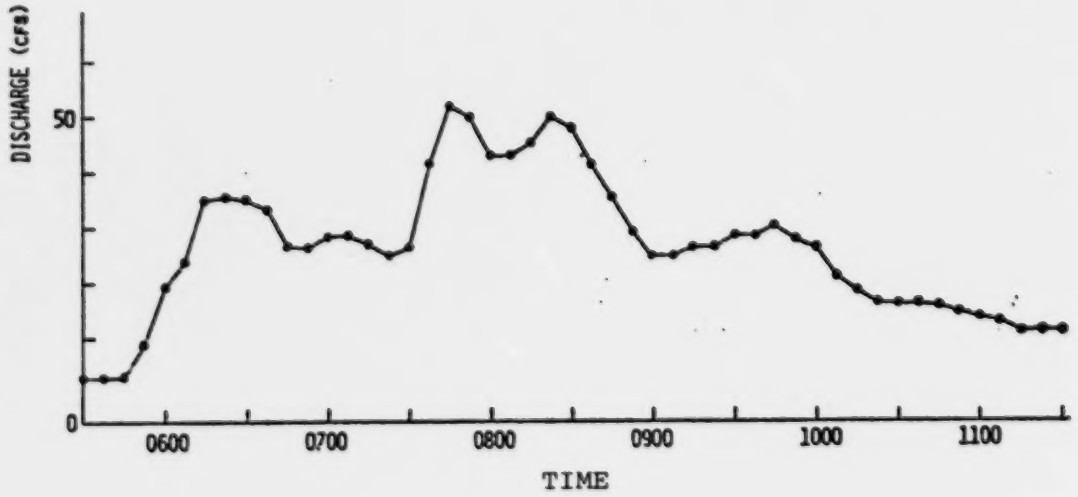


Figure 6-68 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 21 & 22, 1970
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

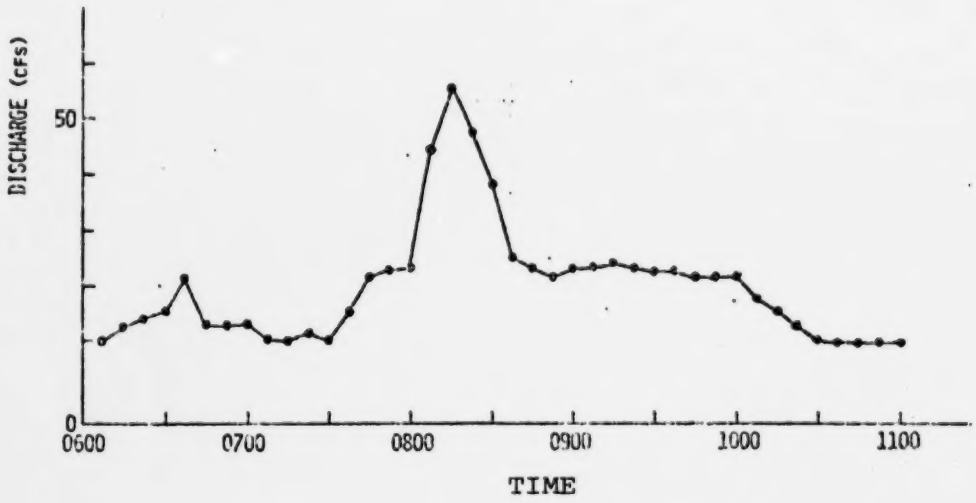


Figure 6-69 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC.21 & 22, 1970
MONITORING STATION: LONGVIEW
11' x 9' SEWER

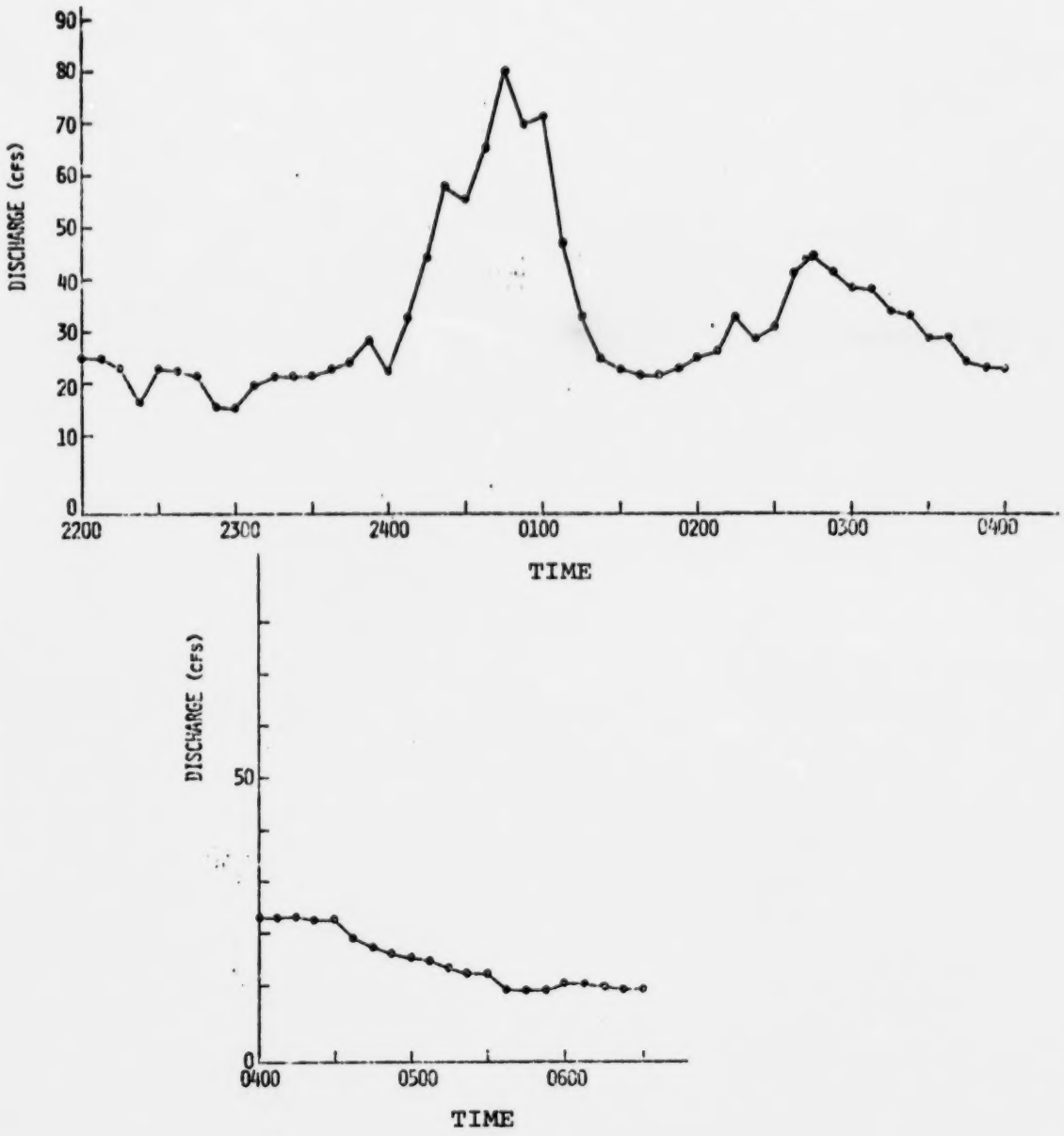


Figure 6-70 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 21 & 22, 1970
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

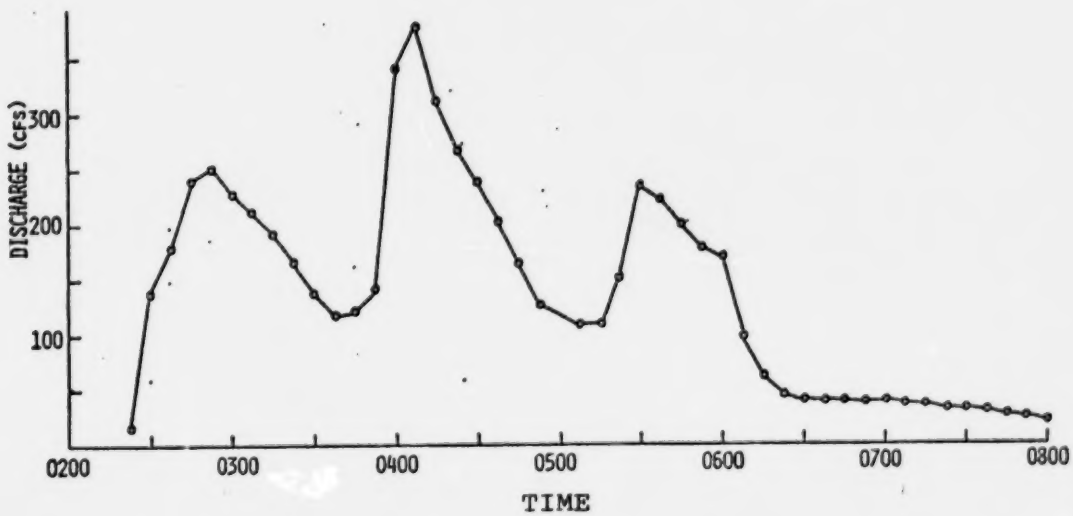
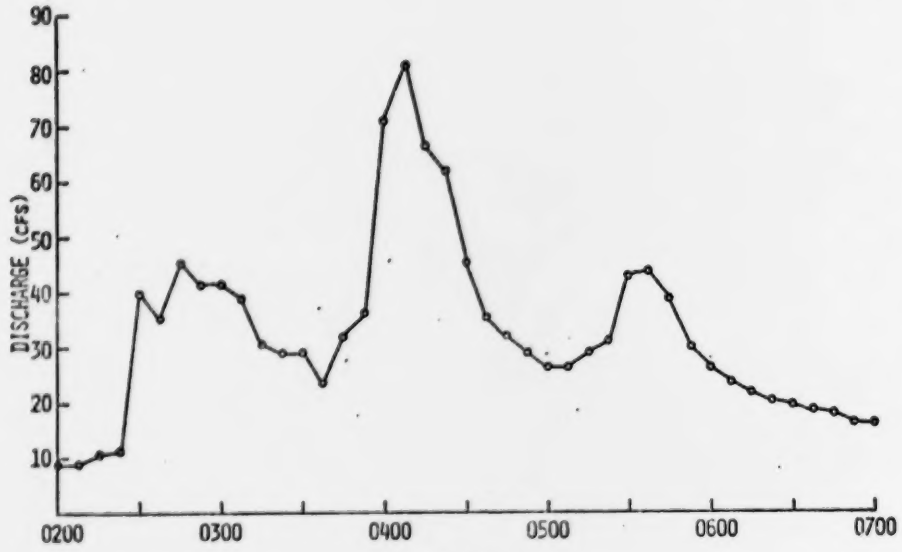
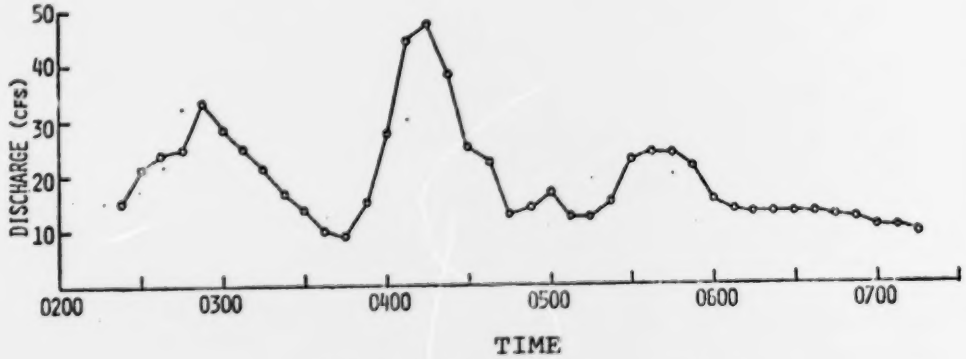


Figure 6-71 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 23, 1970
MONITORING STATION: OUTLET
10' x 15' SEWER



"LONGVIEW - 12' x 9' SEWER"



"LONGVIEW - 11' x 9' SEWER"

Figure 6-72 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: DEC. 23, 1970

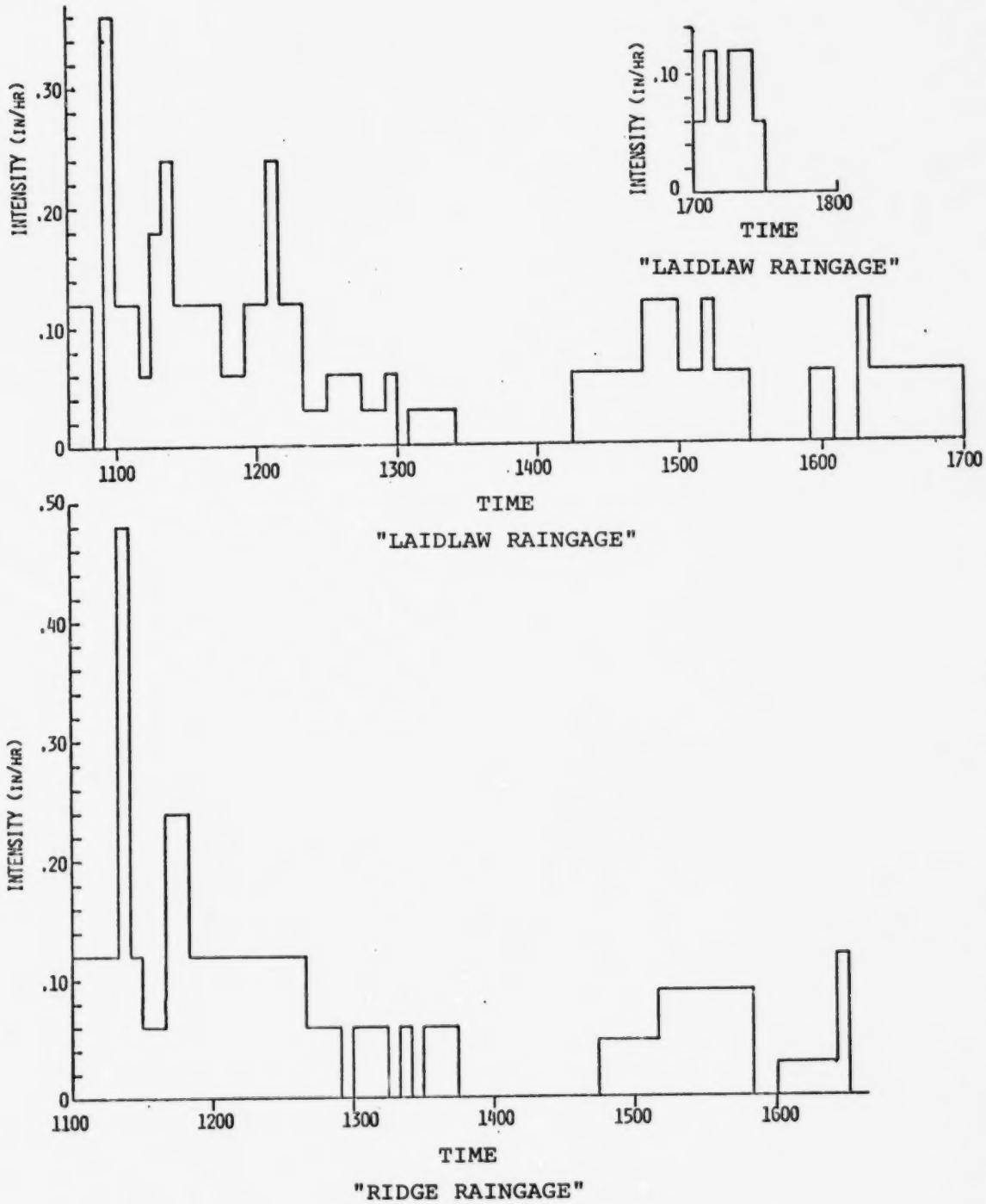
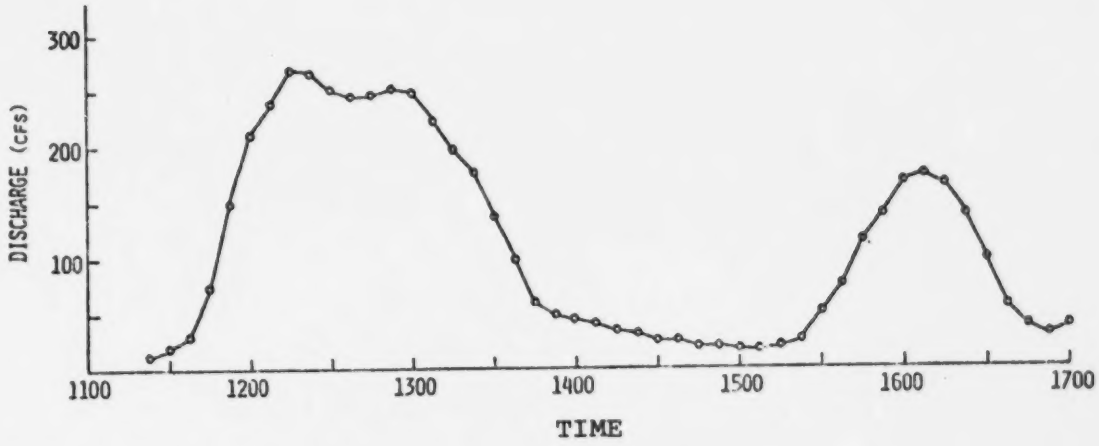


Figure 6-73 RAINFALL OF JAN. 13, 1971
HYETOGRAPHS

Table 6-24 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: January 13, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	BOD
	Laidlaw Gage	Ridge Gage		
1147:30	.06	.24	104	-
1155	.12	.12	174	-
1202:30	.12	.12	219	-
1210	.24	.12	254	253
1217:30	.12	.12	270	206
1225	.03	.12	262	194
1232:30	.06	.12	249	250
1240	.06	.12	246	156
1247:30	.03	.06	250	144
1255	.06	.06	254	141
1302:30	-	.06	243	134
1310	.03	.06	217	150
1317:30	.03	-	193	100
1325	.03	.06	162	110
1332:30	-	.06	127	106
1340	-	.06	82.5	113
1550	-	.09	132.5	169
1557:30	.06	-	158	172
1605	.06	.028	175	156
1612:30	-	.028	168	156
1620	.12	.028	150	172
1627:30	.06	.12	114	175
1730	.06	-	102	172
1737:30	-	-	116	169



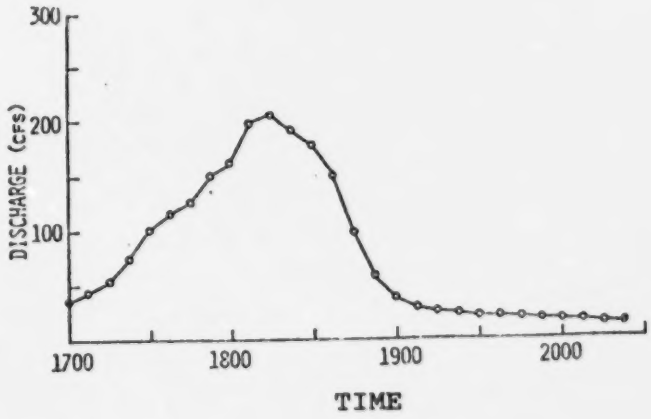


Figure 6-74 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 13, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

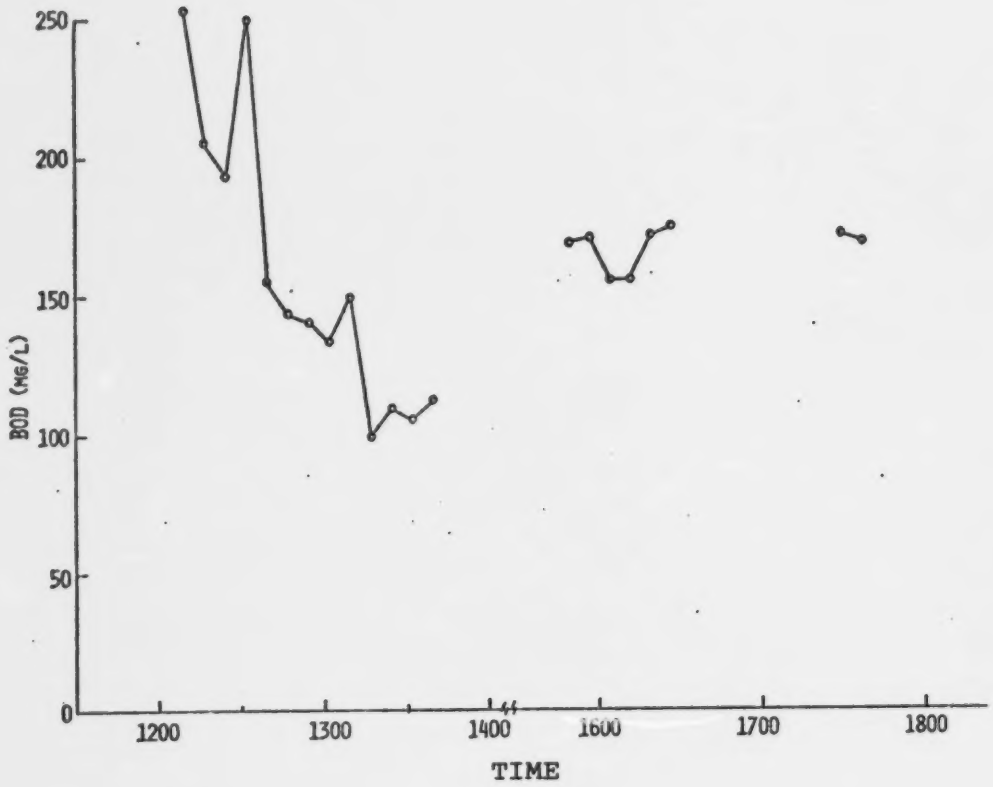
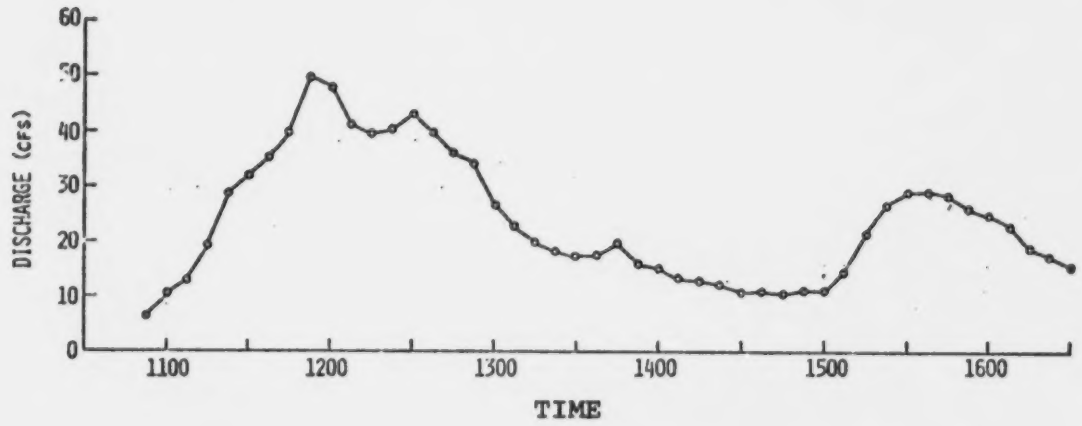


Figure 6-75 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 13, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER



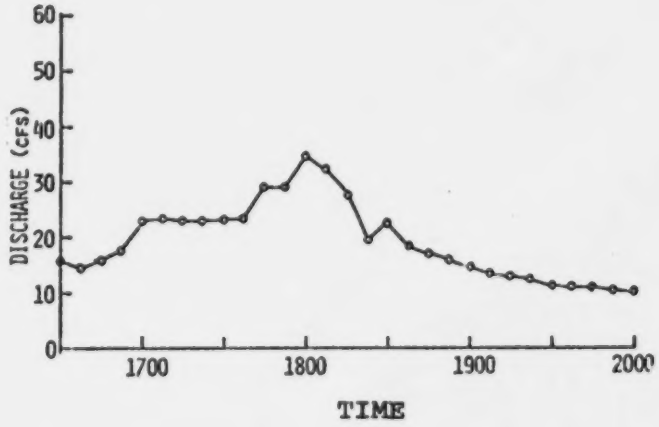


Figure 6-76 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 13, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

Table 6-25 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: January 13, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	BOD
	Laidlaw Gage	Ridge Gage		
1130	.12	.12	15.2	-
1137:30	.12	.06	16.1	-
1145	.12	.24	21.5	194
1152:30	.06	.12	22.5	128
1200	.12	.12	22.9	113
1207:30	.24	.12	22	106
1215	.12	.12	21.5	100
1222:30	.03	.12	21.5	91
1230	.06	.12	22.5	219
1237:30	.06	.12	22.9	81
1245	.06	.06	22.9	72
1252:30	.03	.06	22.9	56
1300	.06	.06	19.8	225
1307:30	.03	.06	13.9	219
1535	-	.09	15.4	171
1542:30	-	.09	15.7	44
1550	-	.09	15.4	175
1557:30	.06	-	14.5	50
1740	-	-	15	106
1747:30	-	-	15.9	-
1755	-	-	17.7	100
1802:30	-	-	19.8	94
1810	-	-	18.5	-
1817:30	-	-	15.8	-

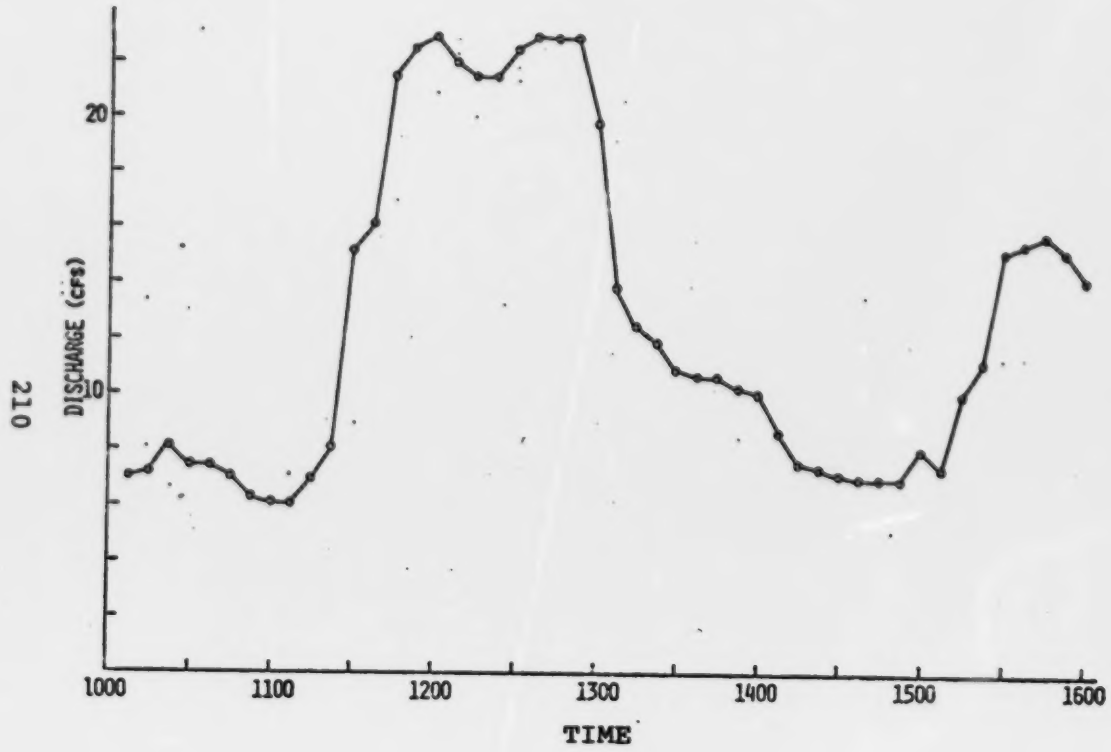


Figure 6-77 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 13, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

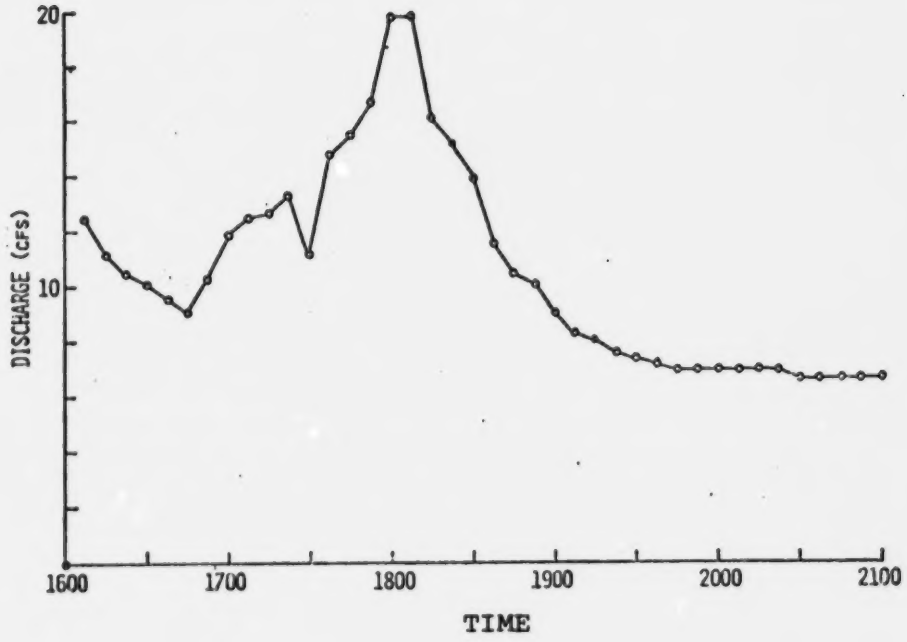


Figure 6-78 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 13, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

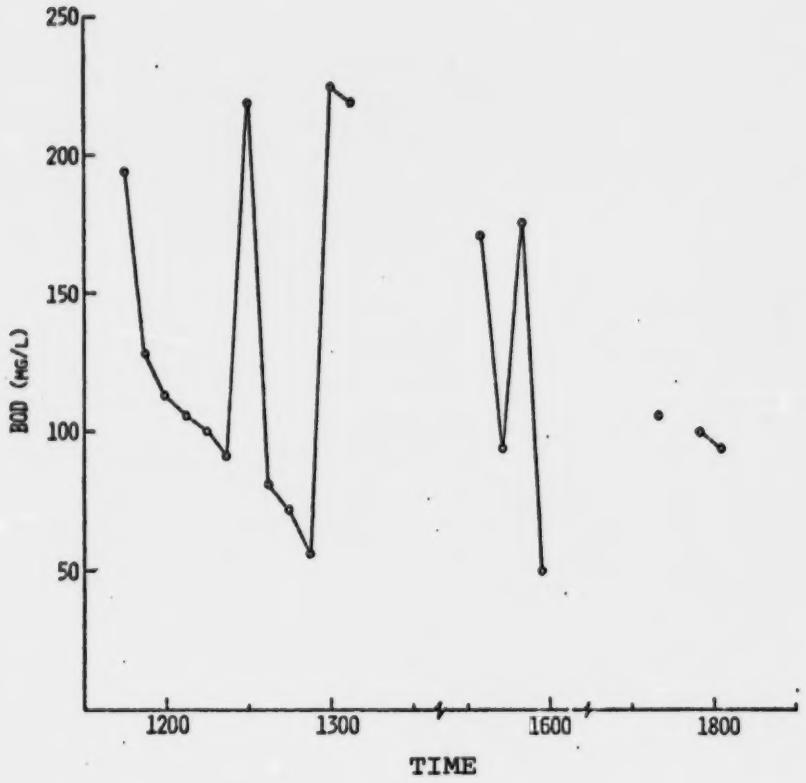


Figure 6-79 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 13, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

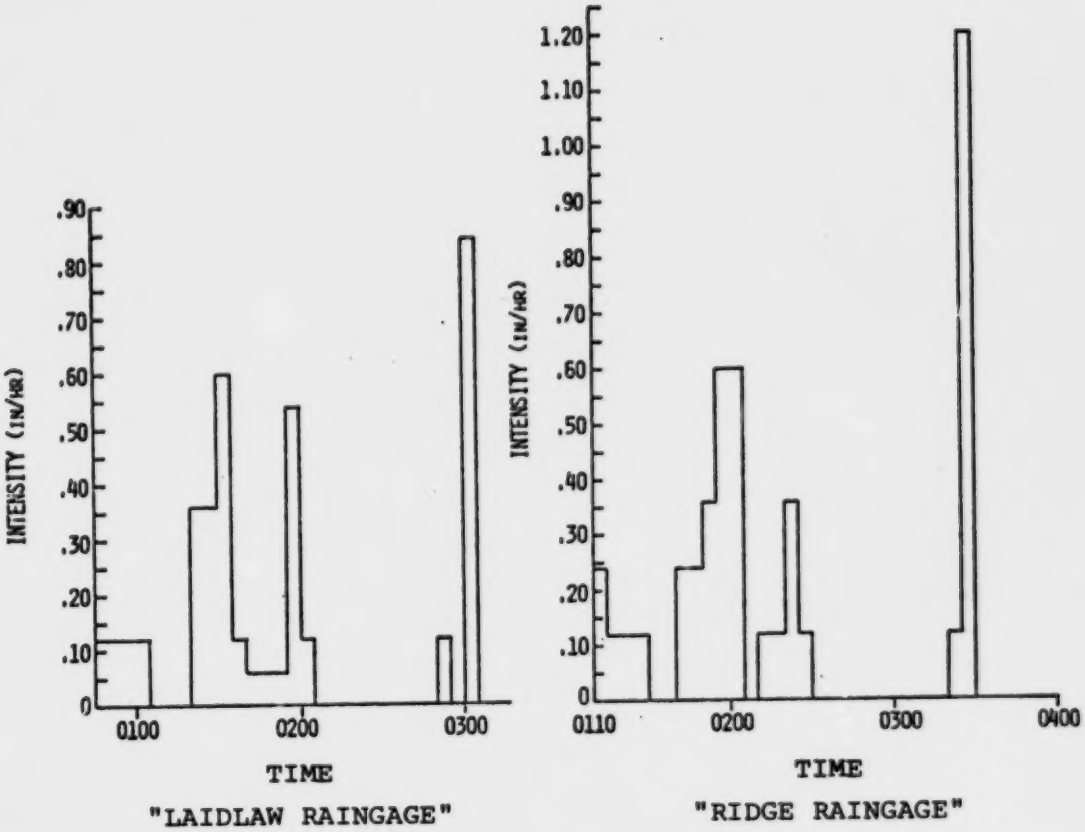


Figure 6-80 RAINFALL OF JAN. 14, 1971
HYETOGRAPHS

Table 6-26 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: January 14, 1971 MONITORING STATION: OUTLET

Time	Intensity of Rain (in/hr)		Discharge cfs	BOD
	Laidlaw Gage	Ridge Gage		
0145	.06	.24	75	219
0152:30	.06	.36	150	194
0200	.54	.60	267	213
0207:30	-	-	427	188
0215	-	.12	400	226
0222:30	-	.36	332	232
0230	-	.12	346	181
0237:30	-	-	379	185
0245	-	-	312.5	185
0252:30	.12	-	250	185
0300	.84	-	222	150
0307:30	-	-	177	-
0315	-	-	150	247
0322:30	-	0.12	140	222
0330	-	1.2	145	175
0337:30	-	-	267	75
0345	-	-	332	88
0352:30	-	-	312	81
0400	-	-	268	88
0407:30	-	-	227	94
0415	-	-	216	100
0422:30	-	-	140	88
0430	-	-	112	63
0437:30	-	-	75	131

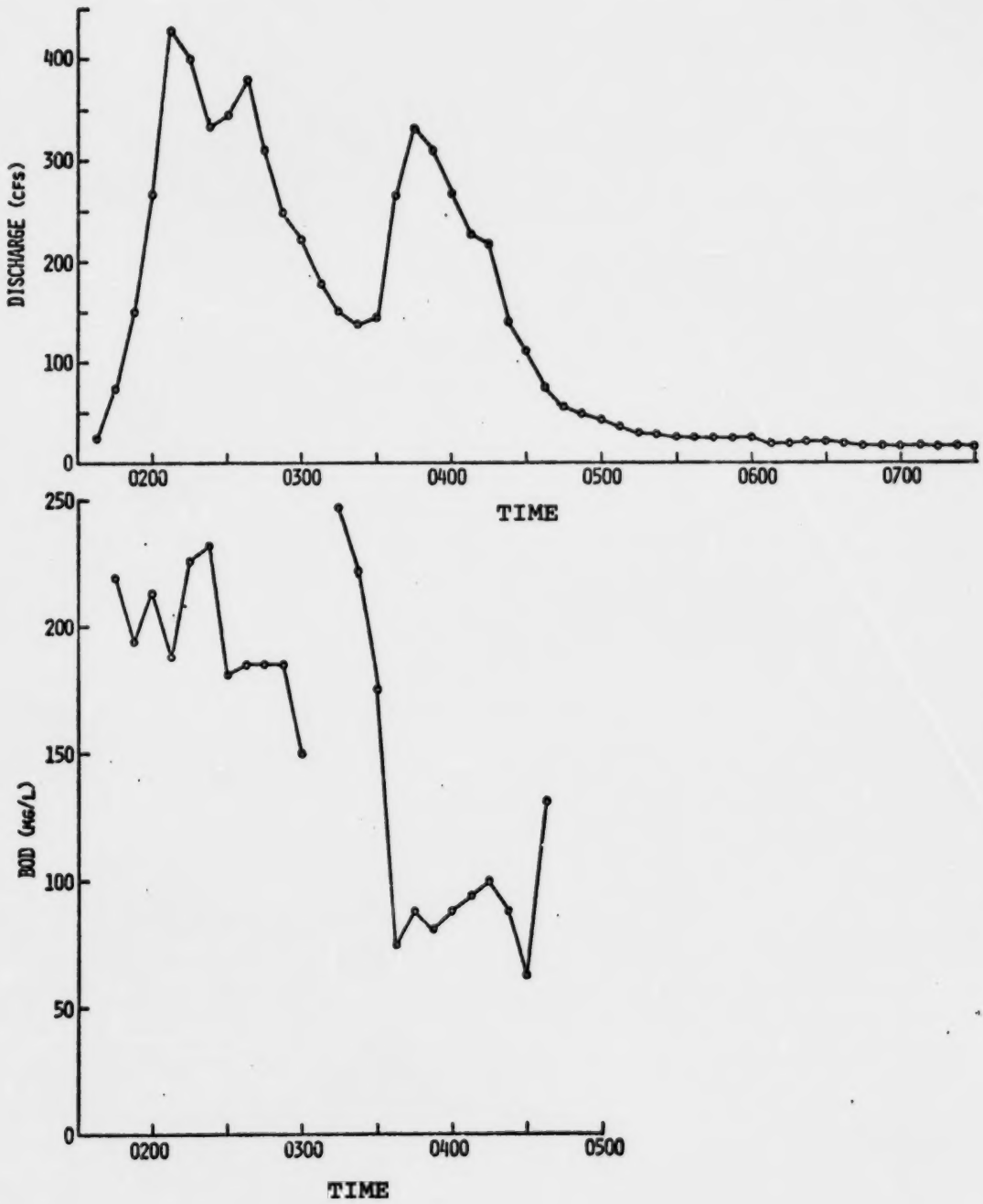


Figure 6-81 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 14, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-27 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: January 14, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	BOD
	Laidlaw Gage	Woodward Gage	Ridge Gage		
0200	.54	-	.6	18	-
0207:30	-	-	-	55	-
0215	-	-	.12	81	148
0222:30	-	-	.36	55	94
0230	-	-	.12	42	81
0237:30	-	-	-	59	75
0245	-	-	-	78	31
0252:30	.12	-	-	50	125
0300	.84	-	-	48	84
0307:30	-	-	-	29	122
0315	-	-	-	24	91
0322:30	-	-	.12	20	69
0330	-	-	1.2	23	85
0337:30	-	-	-	27.5	85
0345	-	-	-	35.5	72
0352:30	-	-	-	54	69
0400	-	-	-	45	50
0407:30	-	-	-	35.5	41
0415	-	-	-	26.5	44
0422:30	-	-	-	24	-
0430	-	-	-	23	156
0437:30	-	-	-	22.5	153
0445	-	-	-	20	106

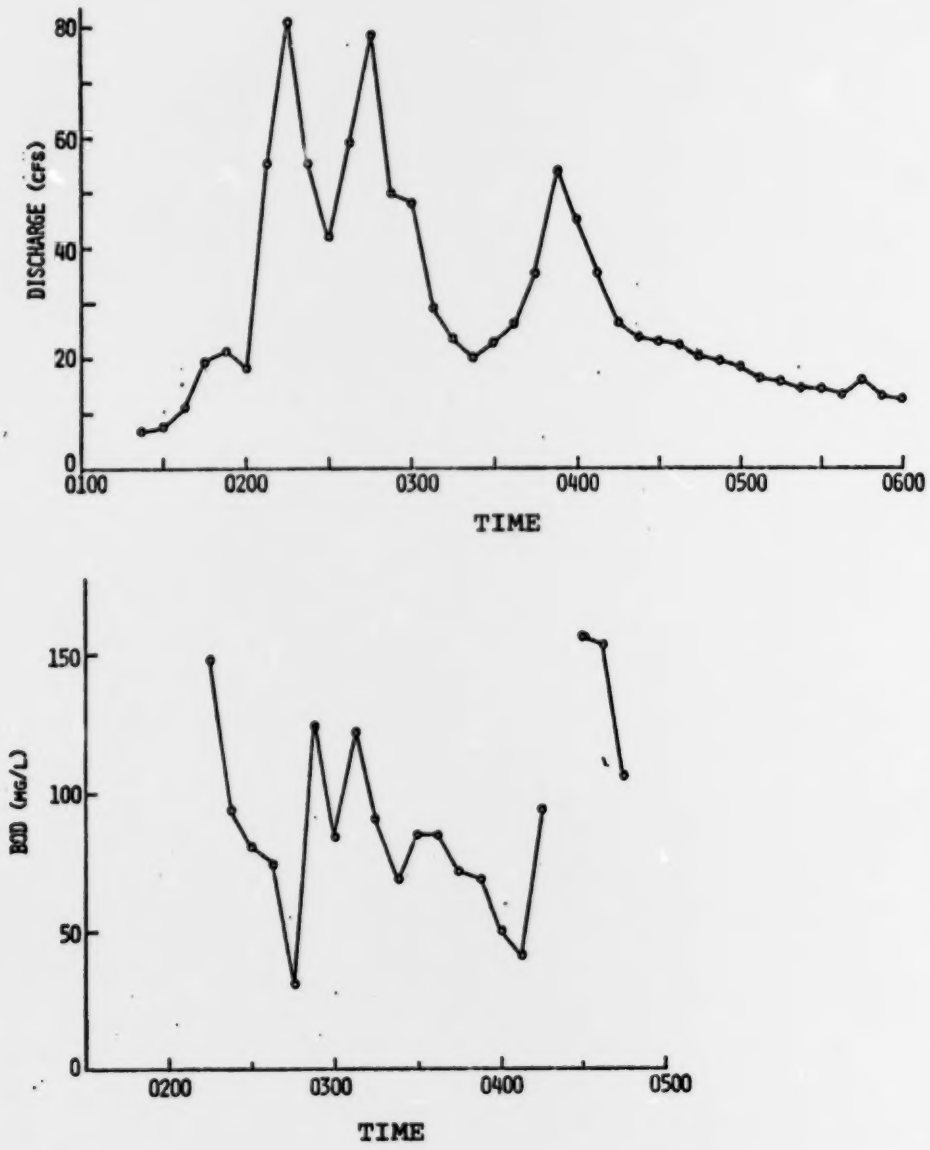


Figure 6-82 RAINFALL QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 14, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

Table 6-28 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: January 14, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	BOD
	Laidlaw Gage	Ridge Gage		
0140	.12	.24	13.3	219
0147:30	.06	.24	14	210
0155	.06	.6	15	-
0202:30	.12	.6	32	-
0210	-	.12	66	141
0217:30	-	.12	80	191
0225	-	.36	50	156
0232:30	-	-	42.8	160
0240	-	-	42.5	150
0247:30	-	-	35.2	194
0255	.12	-	27	185
0302:30	.84	-	20	188
0310	-	-	15	194
0317:30	-	-	12.6	170
0325	-	-	12.5	203
0332:30	-	1.2	24	197
0340	-	-	45	169
0347:30	-	-	49.5	106
0355	-	-	48.5	225
0402:30	-	-	32.5	200
0410	-	-	19	141
0417:30	-	-	15	150
0425	-	-	14	144
0432:30	-	-	13.5	144

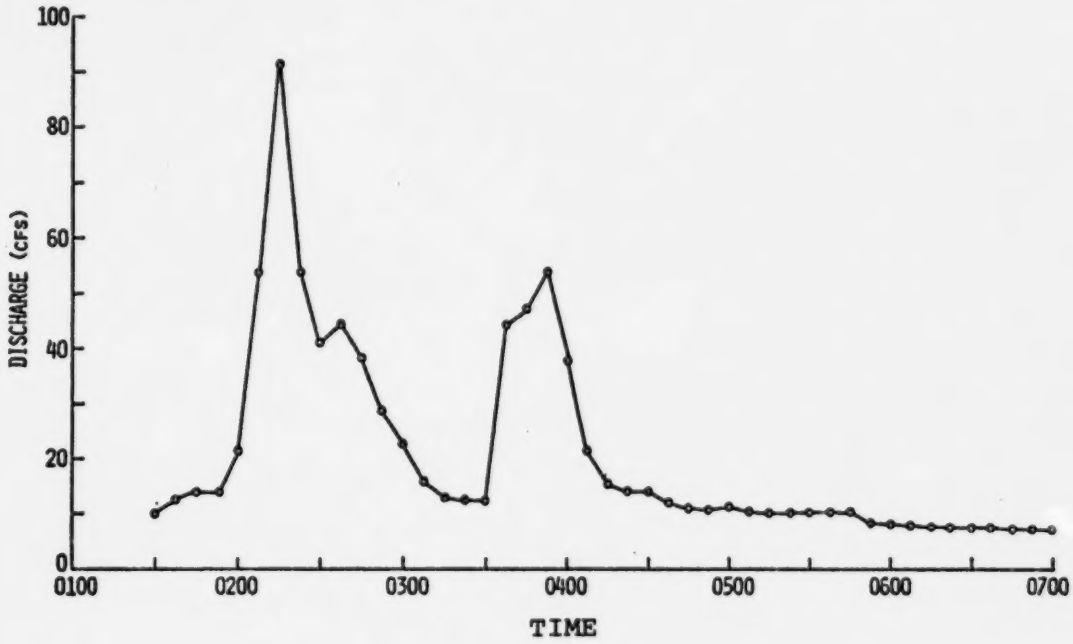


Figure 6-83 RAINFALL QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 14, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

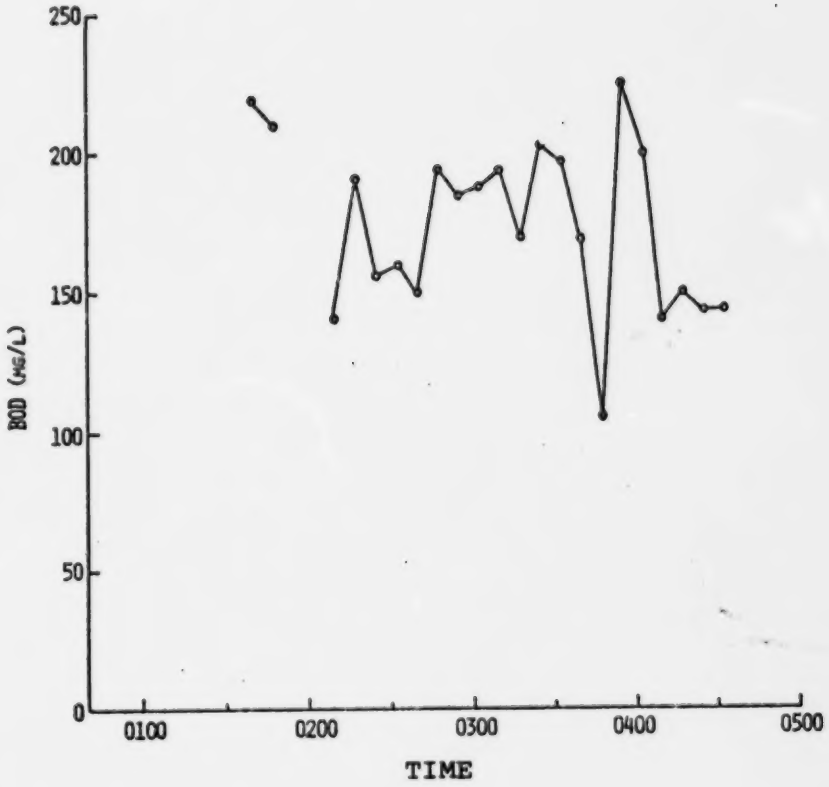


Figure 6-84 RAINFALL QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JAN. 14, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

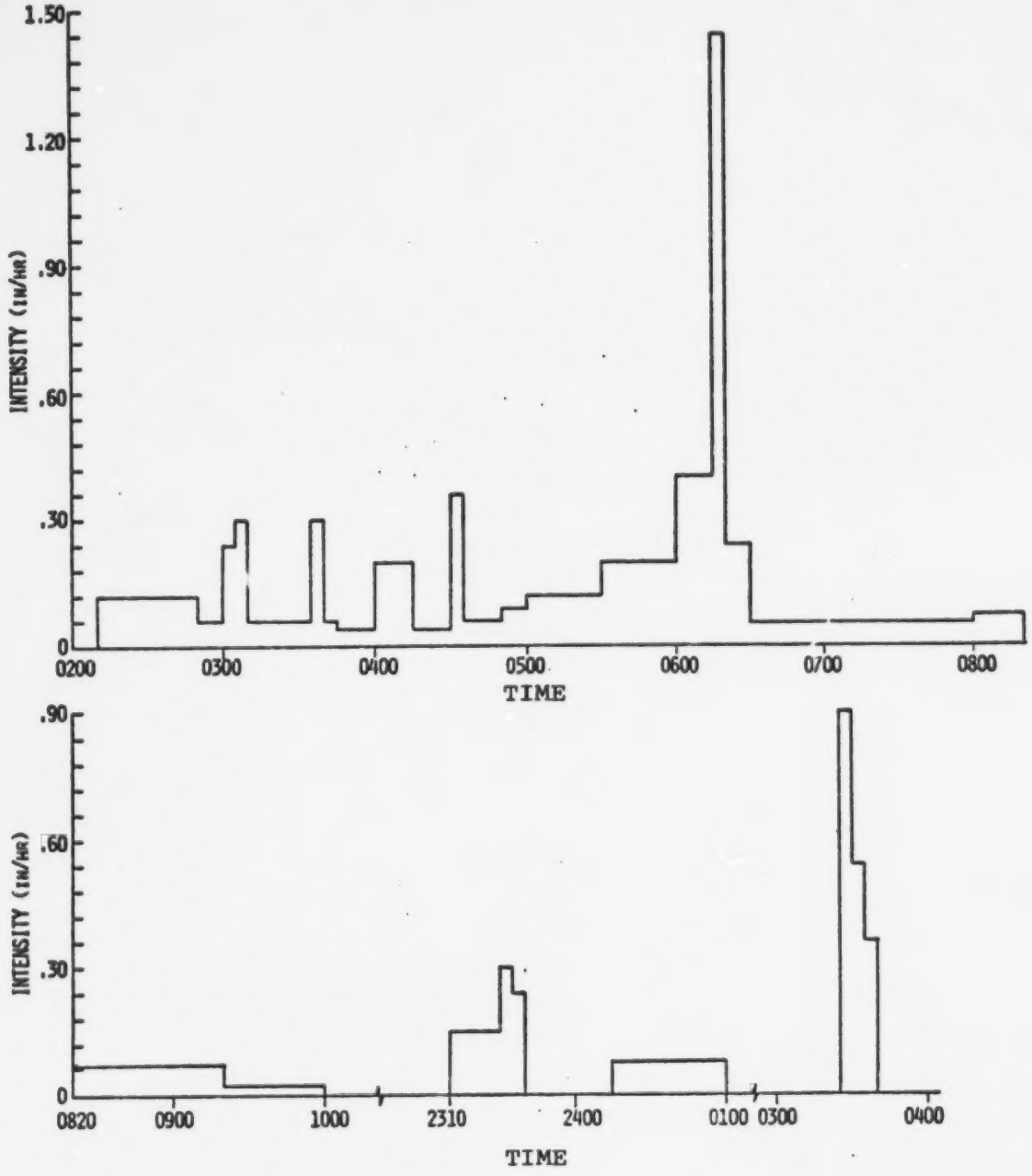


Figure 6-85 RAIN OF FEB. 4, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

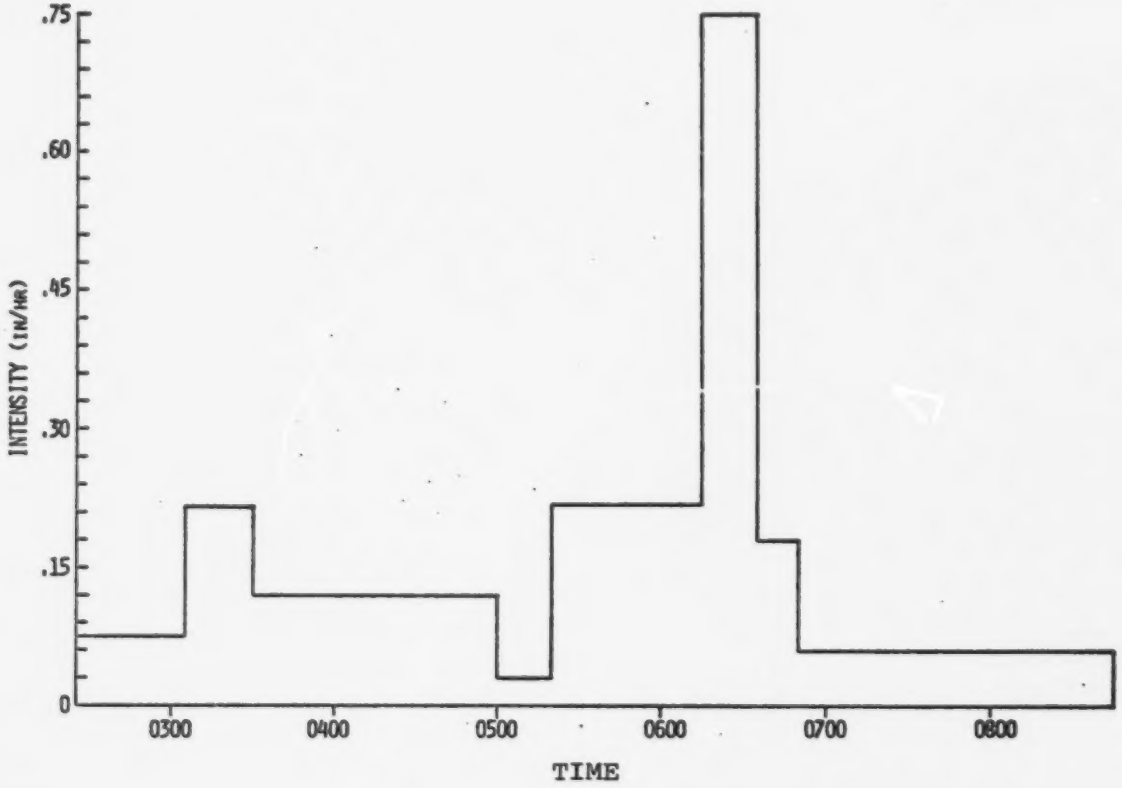


Figure 6-86 RAIN OF FEB. 4, 1971
RIDGE RAINGAGE
HYETOGRAPH

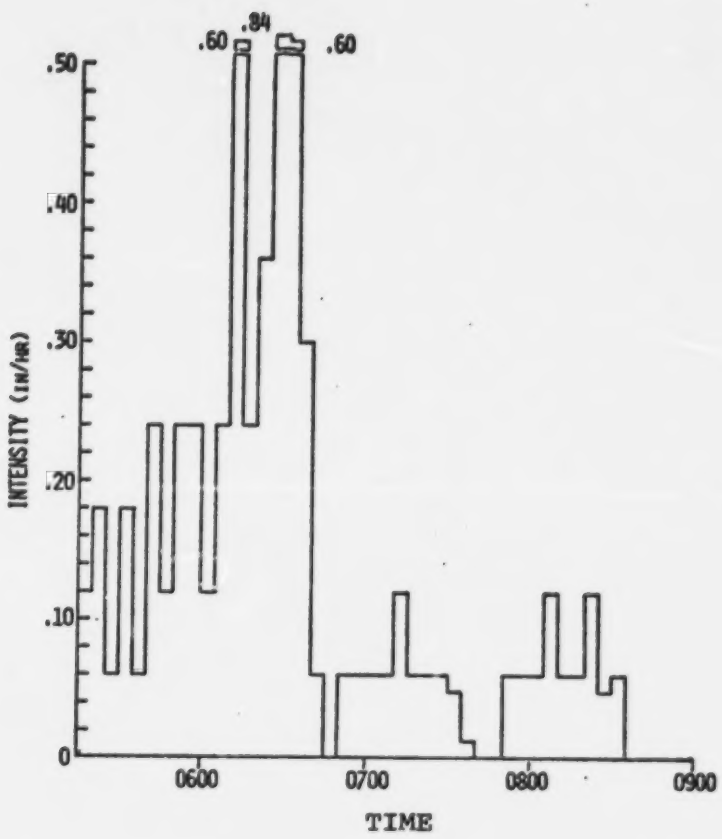


Figure 6-87 RAIN OF FEB. 4, 1971
WOODWARD RAINGAGE
HYETOGRAPH

Table 6-29 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 4, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl	Coliform
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0547:30	0.198	.12	.22	275	760	148	16	100	356	7.4	301	2400
0555	.198	.24	.22	320	1146	119	55	122	352	-	275	4800
0602:30	.4	.12	.22	400	1144	113	78	105	400	-	244	4800
0610	.4	.6	.22	485	1212	132	79	163	396	7.6	198	2700
0617:30	1.44		.75	642	1016	121	59	144	340	-	258	3600
0625	.24	.84	.75	695	1196	118	53	138	348	-	309	3900
0632:30	.054	.6	.75	600	1232	232	116	178	884	-	284	2200
0640	.054	.3	.18	488	1178	157	108	125	364	7.8	356	1400
0647:30	.054	-	.18	425	1186	143	96	122	404	-	258	2500
0655	.054	.06	.06	350	1110	126	77	131	888	-	275	1100
0702:30	.054	.06	.06	320	1190	-	-	119	360	7.7	266	1600
0710	.054	.12	.06	285	-	-	-	145	292	-	-	1400

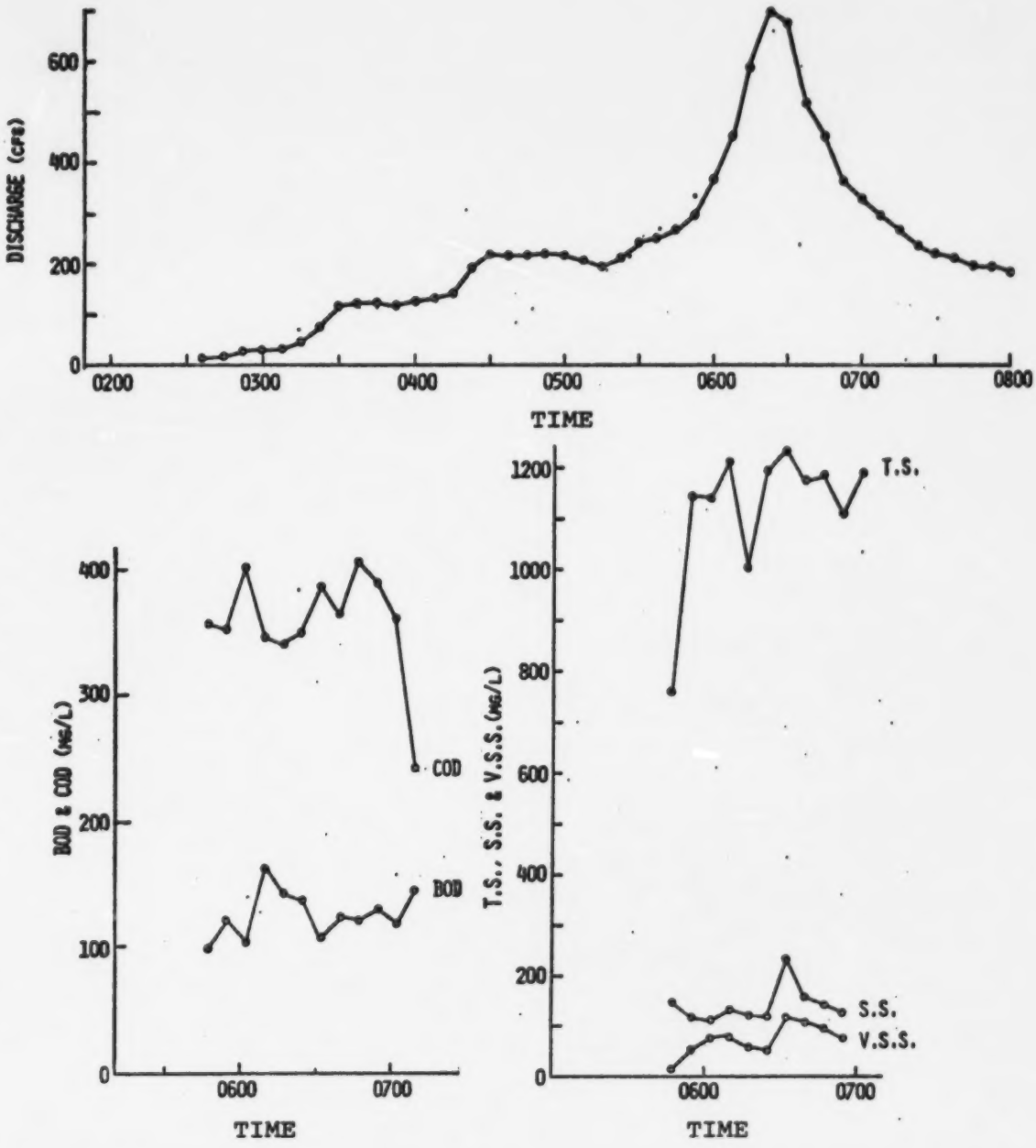


Figure 6-88 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 4, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

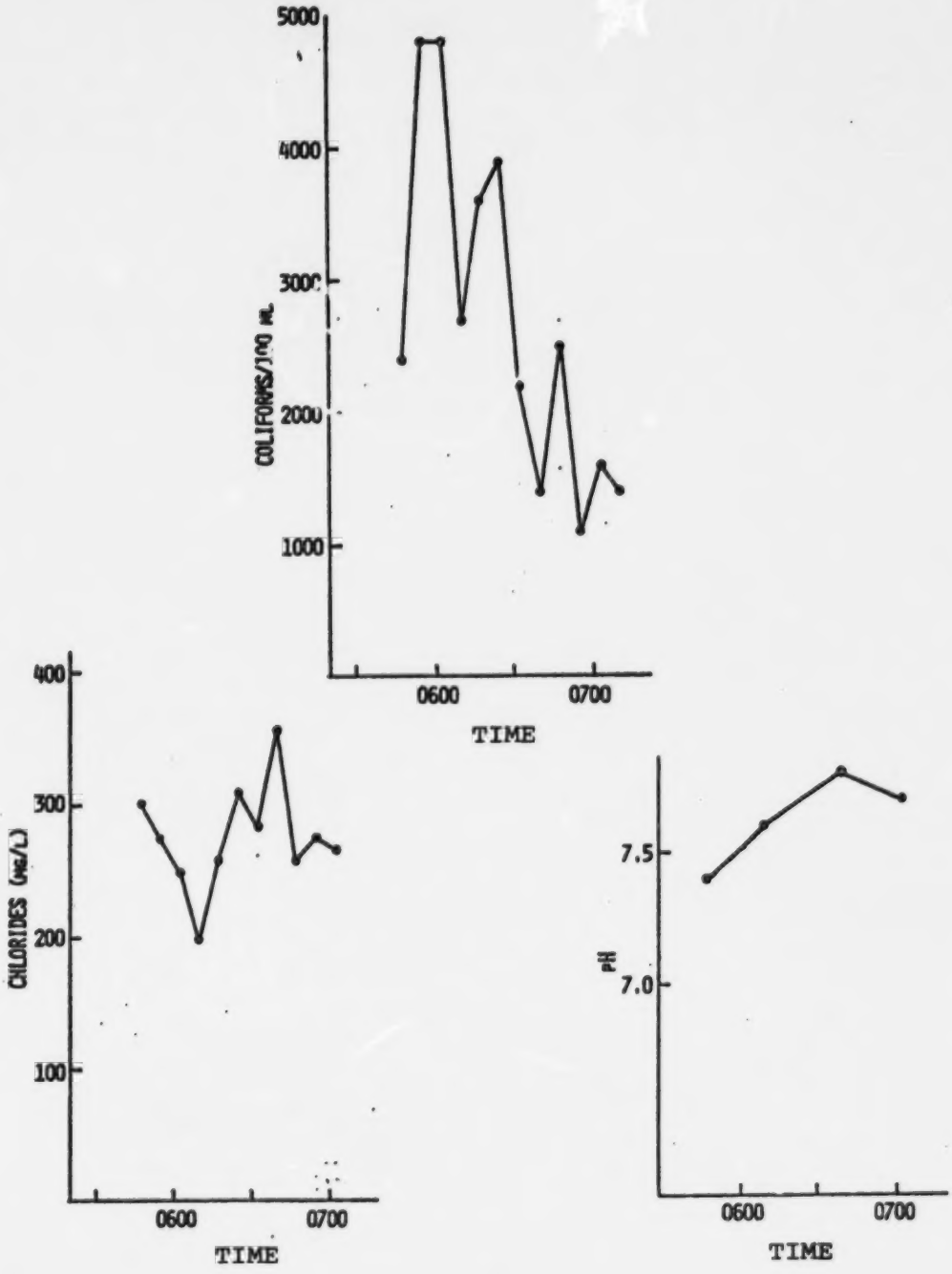


Figure 6-89 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-30 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 4, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage					
0607:30	.4	.24	.22	41	-	244	119	192
0615	1.44	.6	.75	49	120	328	88	176
0622:30	.24	.36	.75	62	400	274	34	136
0630	.24	.84	.75	86	448	307	38	152
0637:30	.054	.3	.18	153	408	401	34	164
0645	.054	.06	.18	180	436	361	31	164
0652:30	.054	.06	.06	103	310	182	-	152
0700	.054	.06	.06	86	-	382	41	180
0707:30	.054	.06	.06	49	336	284	19	184
0715	.054	.12	.06	41	-	230	-	176
0722:30	.054	.06	.06	31	-	-	-	-

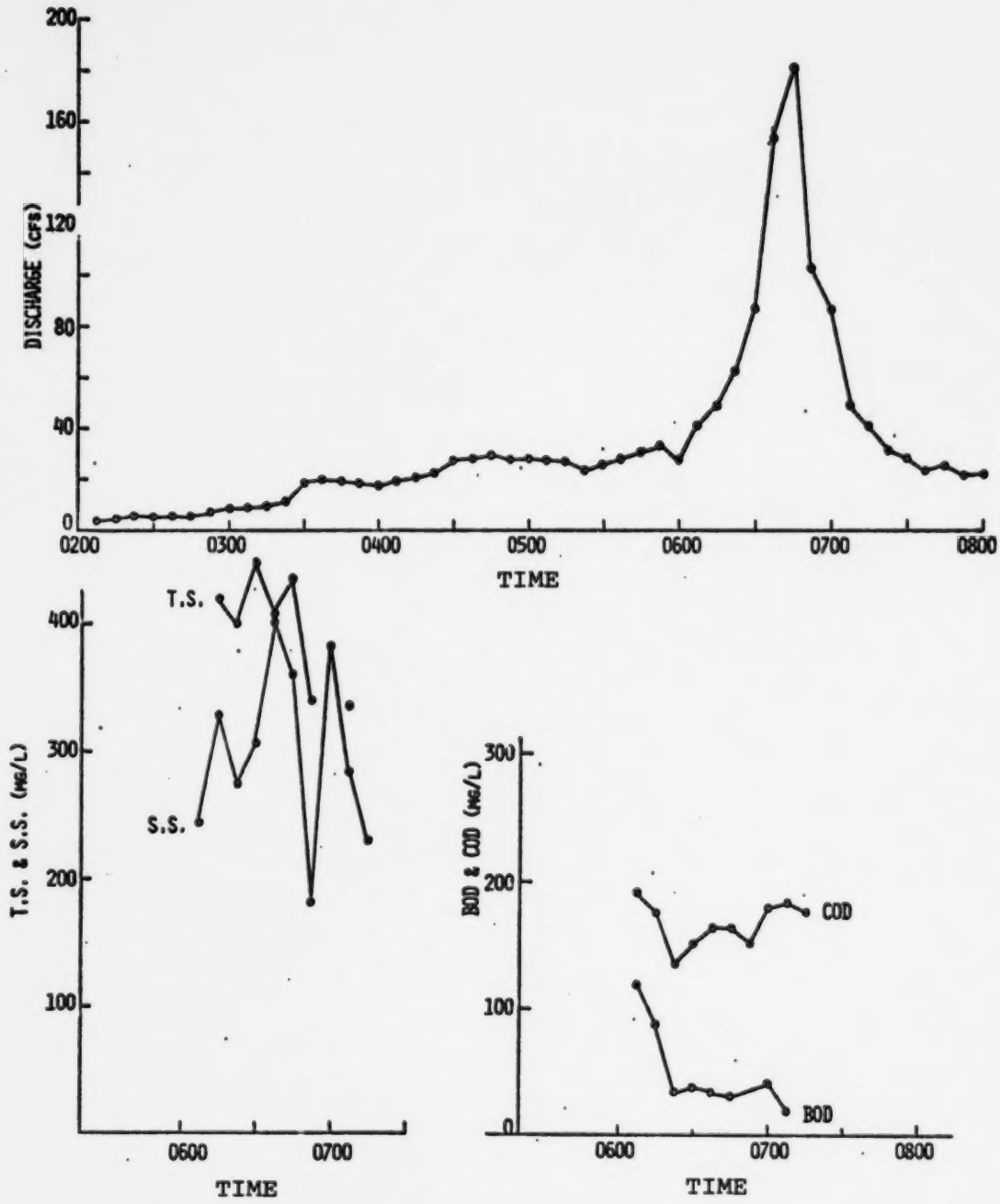


Figure 6-90 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

Table 6-31 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 4, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Volatile Sus. Solids (mg/l)	Suspended Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage						
0422:30	.042	-	.12	20	-	-	-	-	-
0430	.36	-	.12	23.5	-	-	-	-	-
0437:30	.06	-	.12	22.5	1686	132	206	241	172
0445	.06	-	.12	23.5	-	-	-	-	-
0452:30	.09	-	.12	25	-	-	-	-	-
0500	.12	-	.12	24	-	-	-	-	-
0507:30	.12	-	.03	22	-	-	-	-	-
0515	.12	.12	.03	20	868	98	186	140	392
0522:30	.12	.18	.22	20	840	144	185	119	384
0530	.198	.18	.22	25	824	123	208	91	292
0537:30	.198	.06	.22	27	562	192	230	138	300
0545	.198	.24	.22	30	944	122	205	163	468
0552:30	.198	.24	.22	34	780	88	110	156	304
0600	.4	.24	.22	41	666	87	131	140	312
0607:30	.4	.24	.22	52	1020	174	224	200	380
0615	1.44	.60	.75	66	478	82	200	238	512
0622:30	.24	.36	.75	104	1376	55	154	238	644
0630	.24	.84	.75	185	1588	77	140	232	588
0637:30	.054	.3	.18	181	1768	89	155	225	464
0645	.054	.06	.18	120	1878	57	146	212	-
0652:30	.054	.06	.06	60	1916	90	121	206	496
0700	.054	.06	.06	52	2104	41	114	212	552

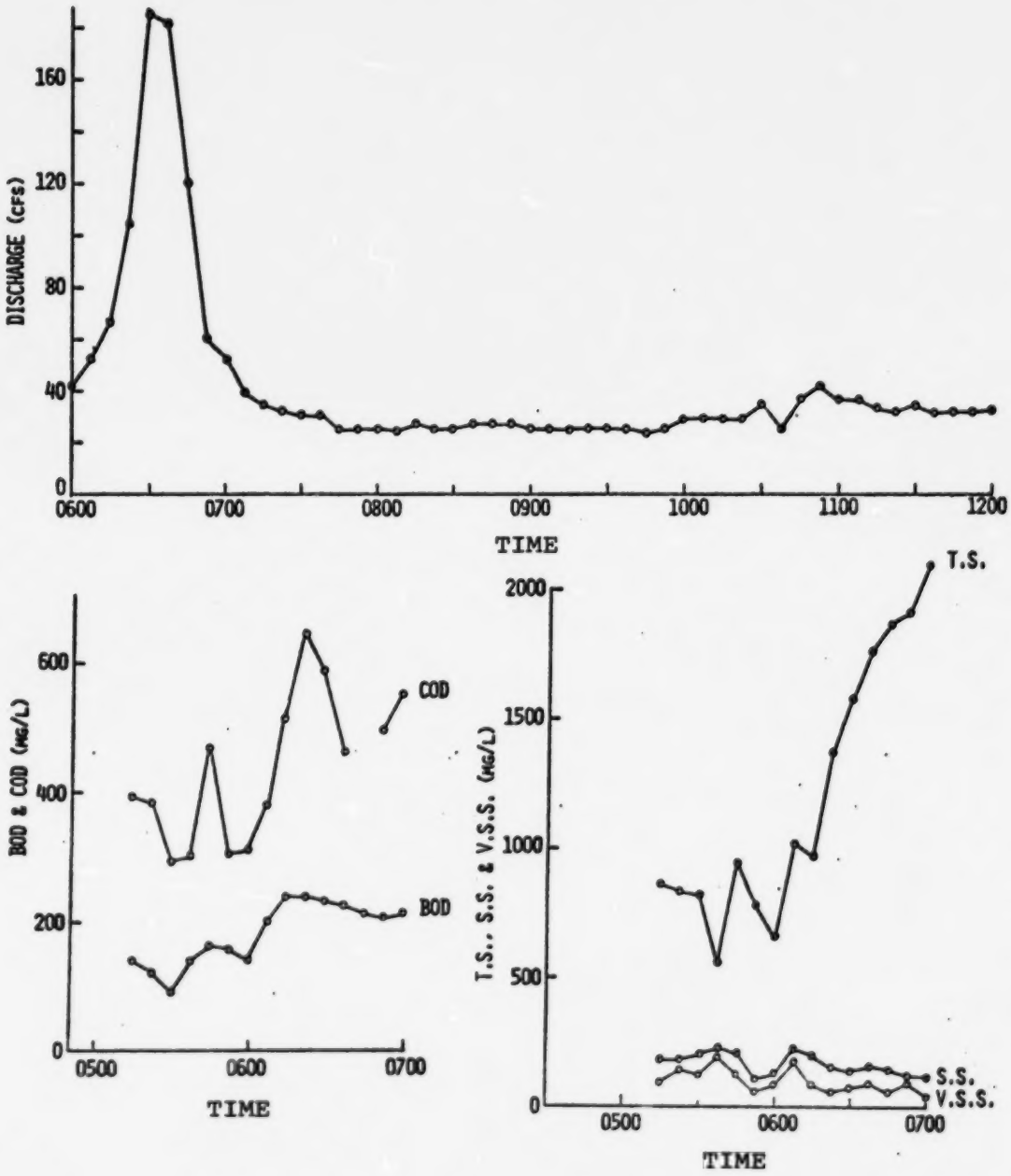
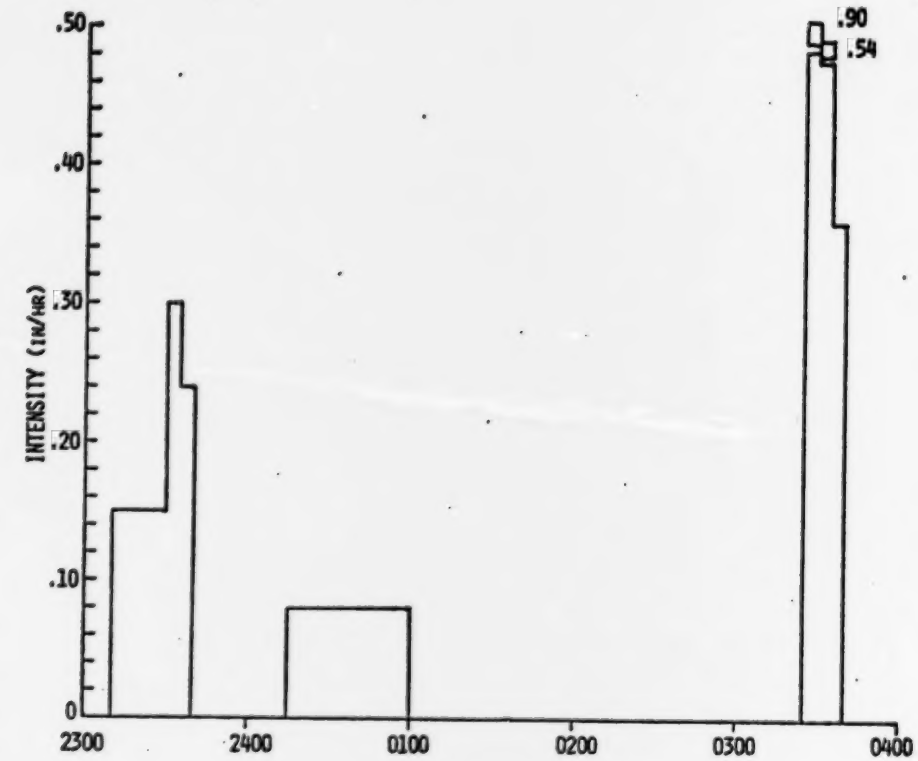
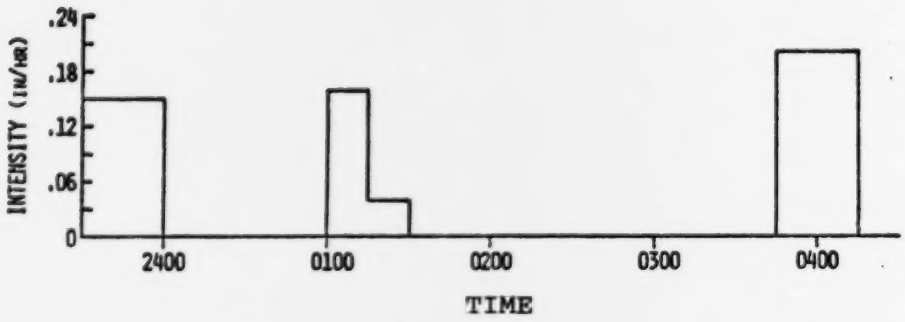


Figure 6-91 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 4, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

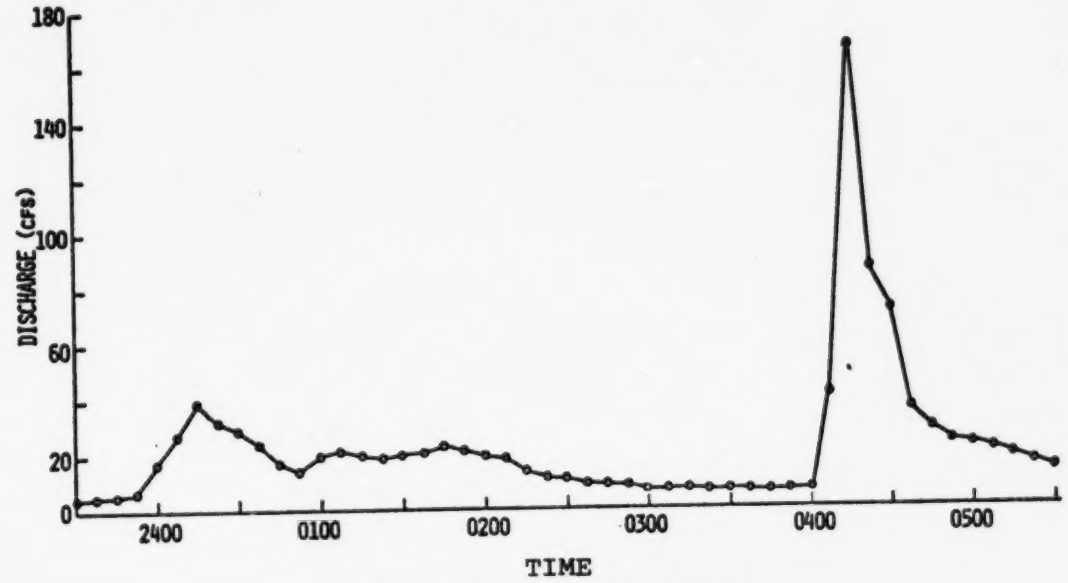


"LAIDLAW RAINGAGE

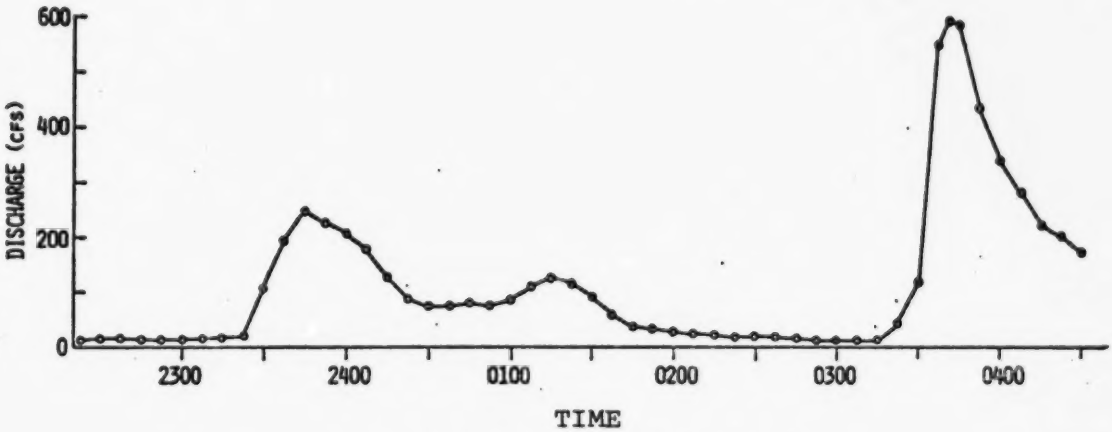


"RIDGE RAINGAGE"

Figure 6-92 RAIN OF FEB. 4 & 5, 1971
HYETOGRAPH

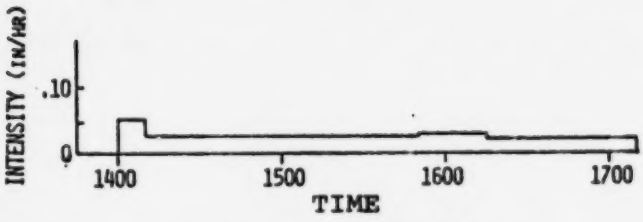


"LONGVIEW 12' x 9' SEWER"

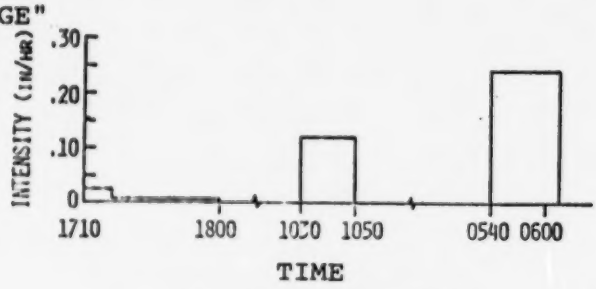


"OUTLET 10' x 15' SEWER"

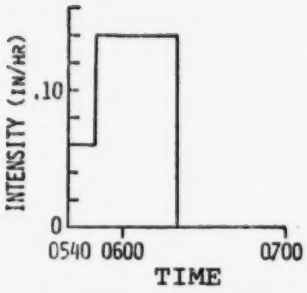
Figure 6-93 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 4 & 5, 1971



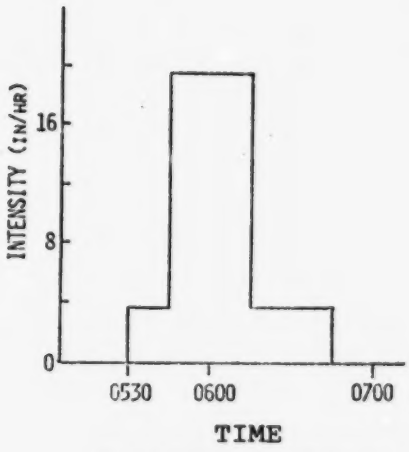
"LAIDLAW RAINGAGE"



"LAIDLAW RAINGAGE"

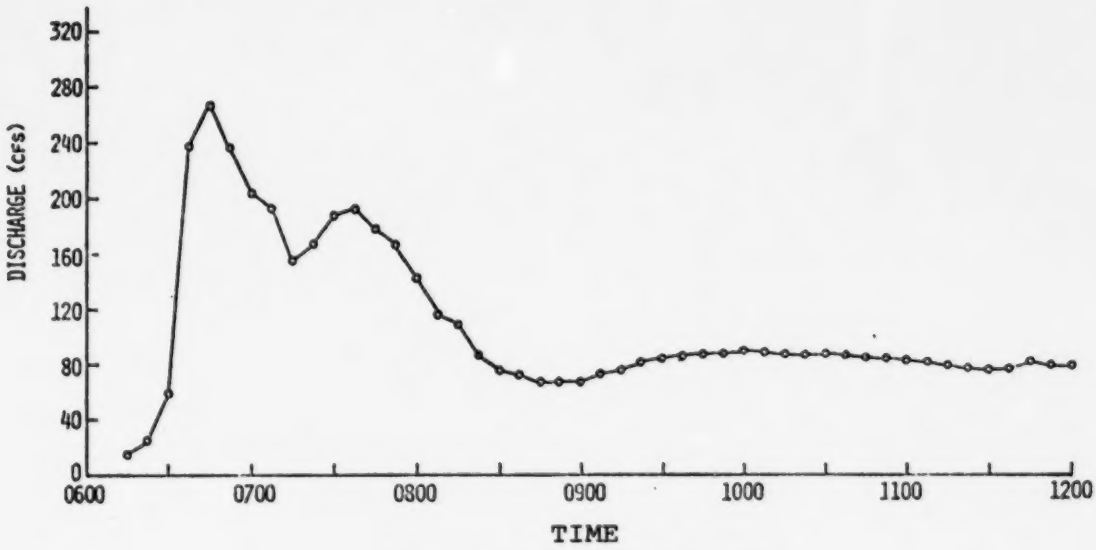


"RIDGE RAINGAGE"

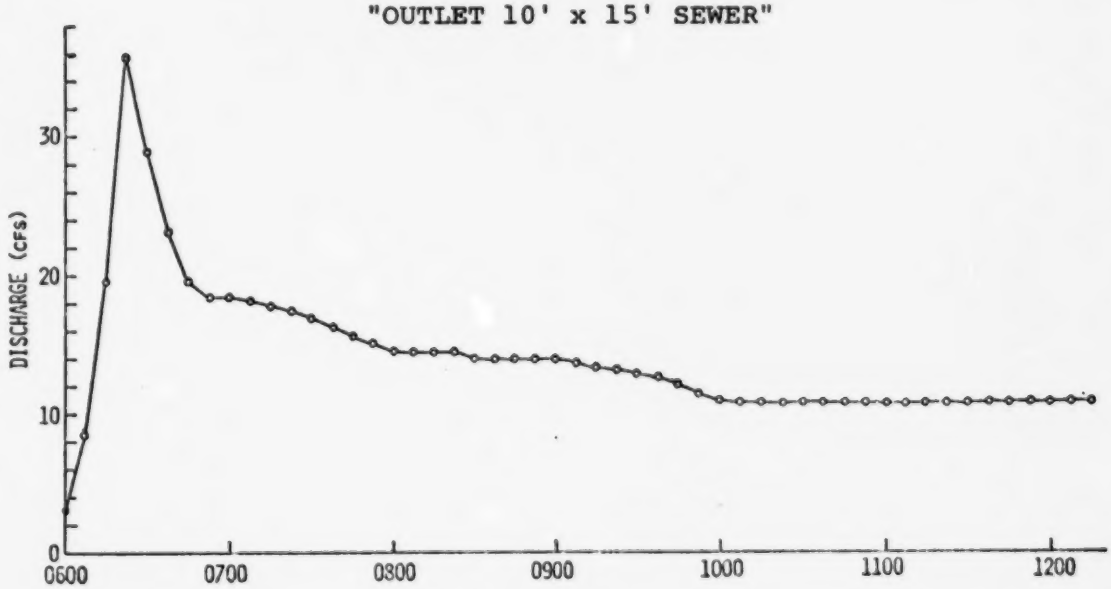


"WOODWARD RAINGAGE"

Figure 6-94 RAIN OF FEB. 16 & 17, 1971
HYETOGRAPHS

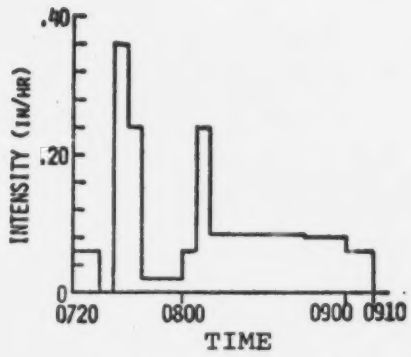


"OUTLET 10' x 15' SEWER"

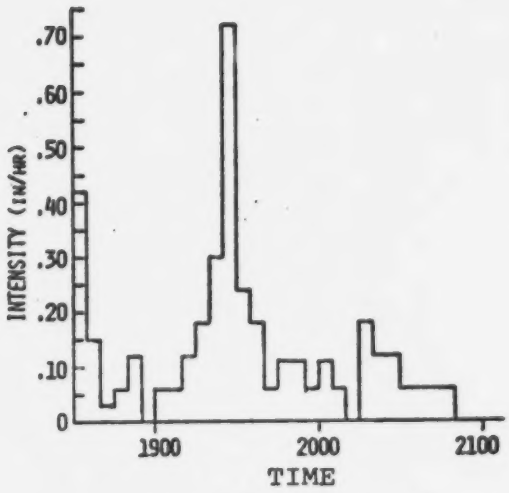


"LONGVIEW 12' x 9' SEWER"

Figure 6-95 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 17, 1971

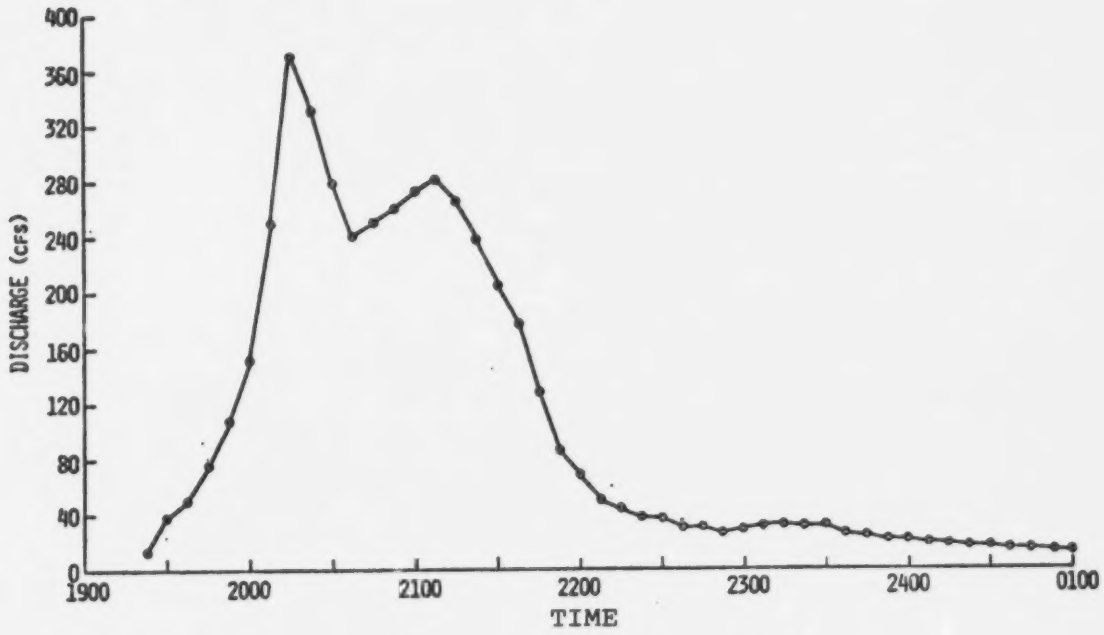


"LAIDLAW RAINGAGE"

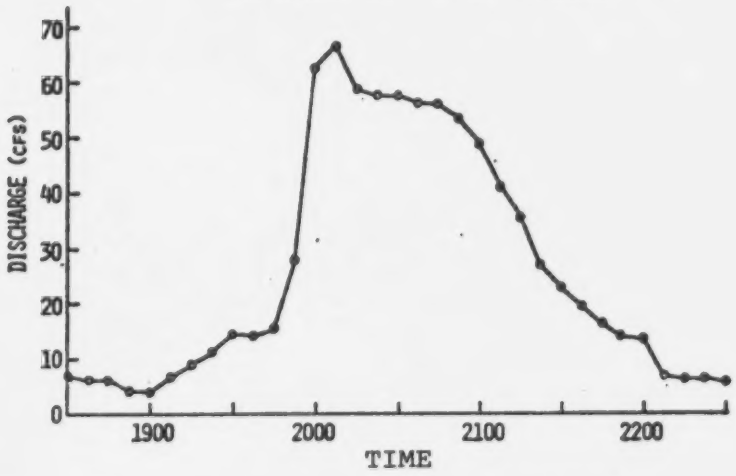


"RIDGE RAINGAGE"

Figure 6-96 RAINFALL OF FEB. 19 & 20, 1971
HYETOGRAPHS

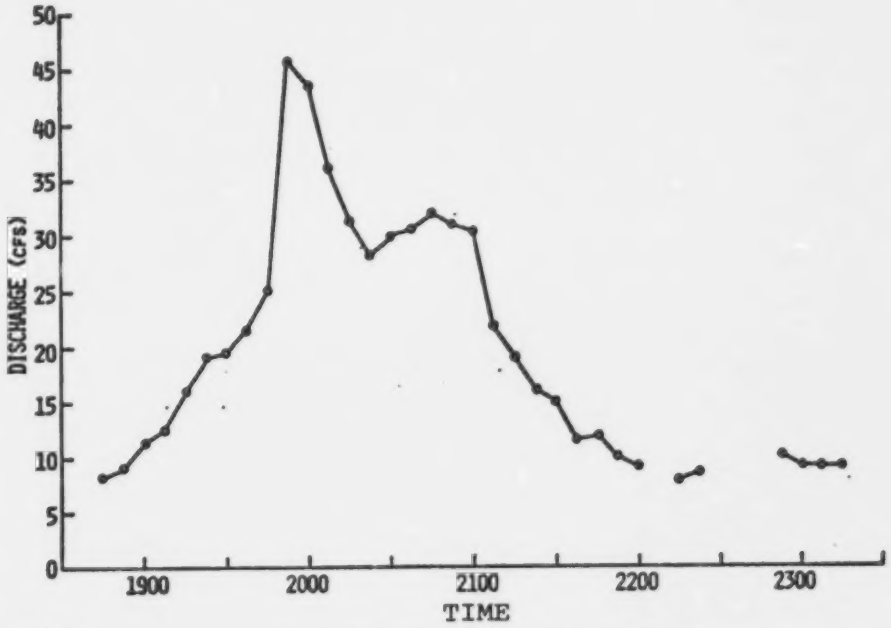


"OUTLET 10' x 15' SEWER"

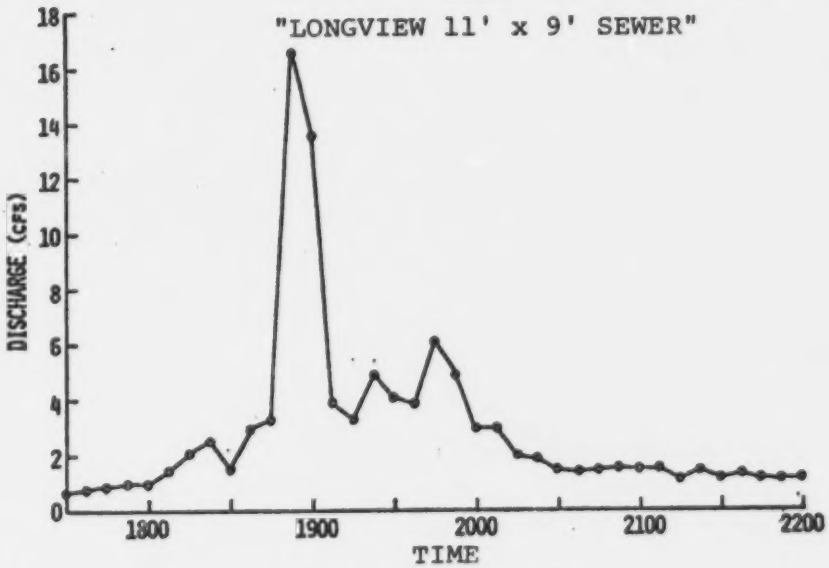


"LONGVIEW 12' x 9' SEWER"

Figure 6-97 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 19 & 20, 1971



"LONGVIEW 11' x 9' SEWER"



"BANK 78" SEWER"

Figure 6-98 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 19 & 20, 1971

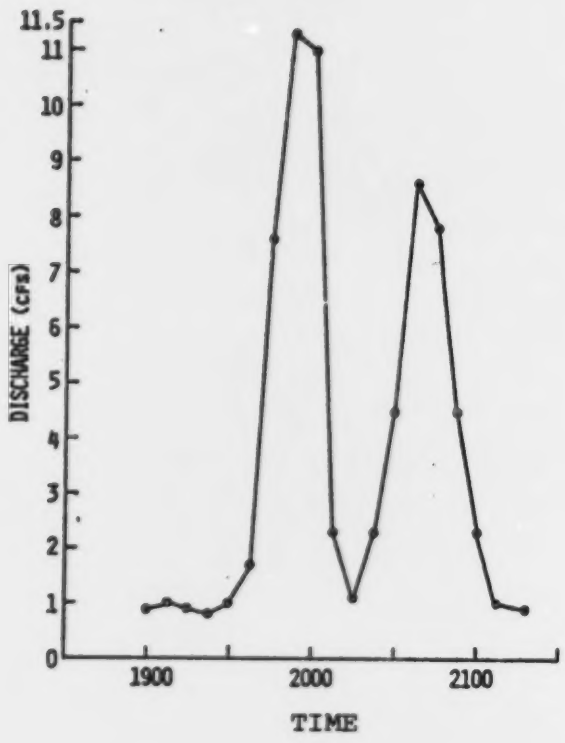
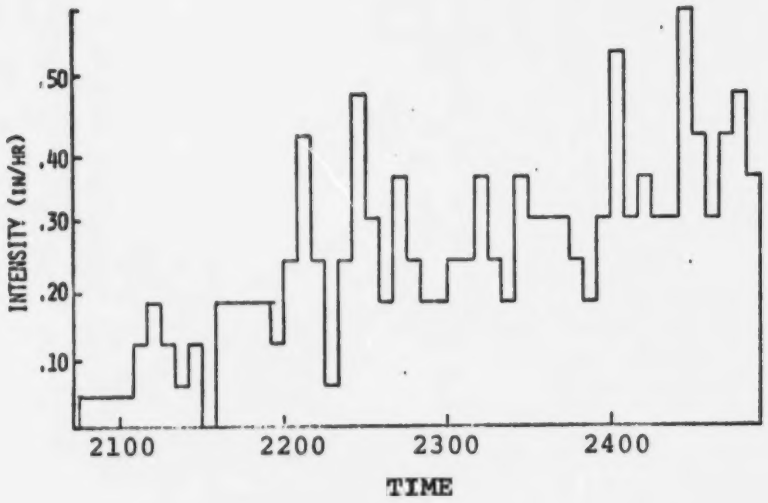


Figure 6-99 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 19 & 20, 1971
MONITORING STATION: BANK -
54" SEWER



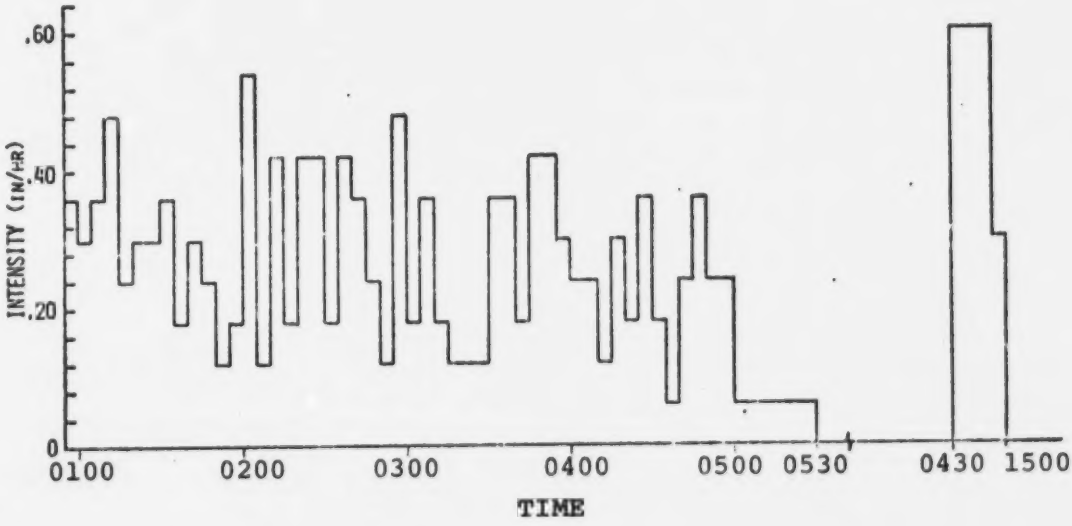


Figure 6-100 RAIN OF FEB. 21 & 22, 1971
LAIDLAW RAINGAGE
HYETOGRAPHS

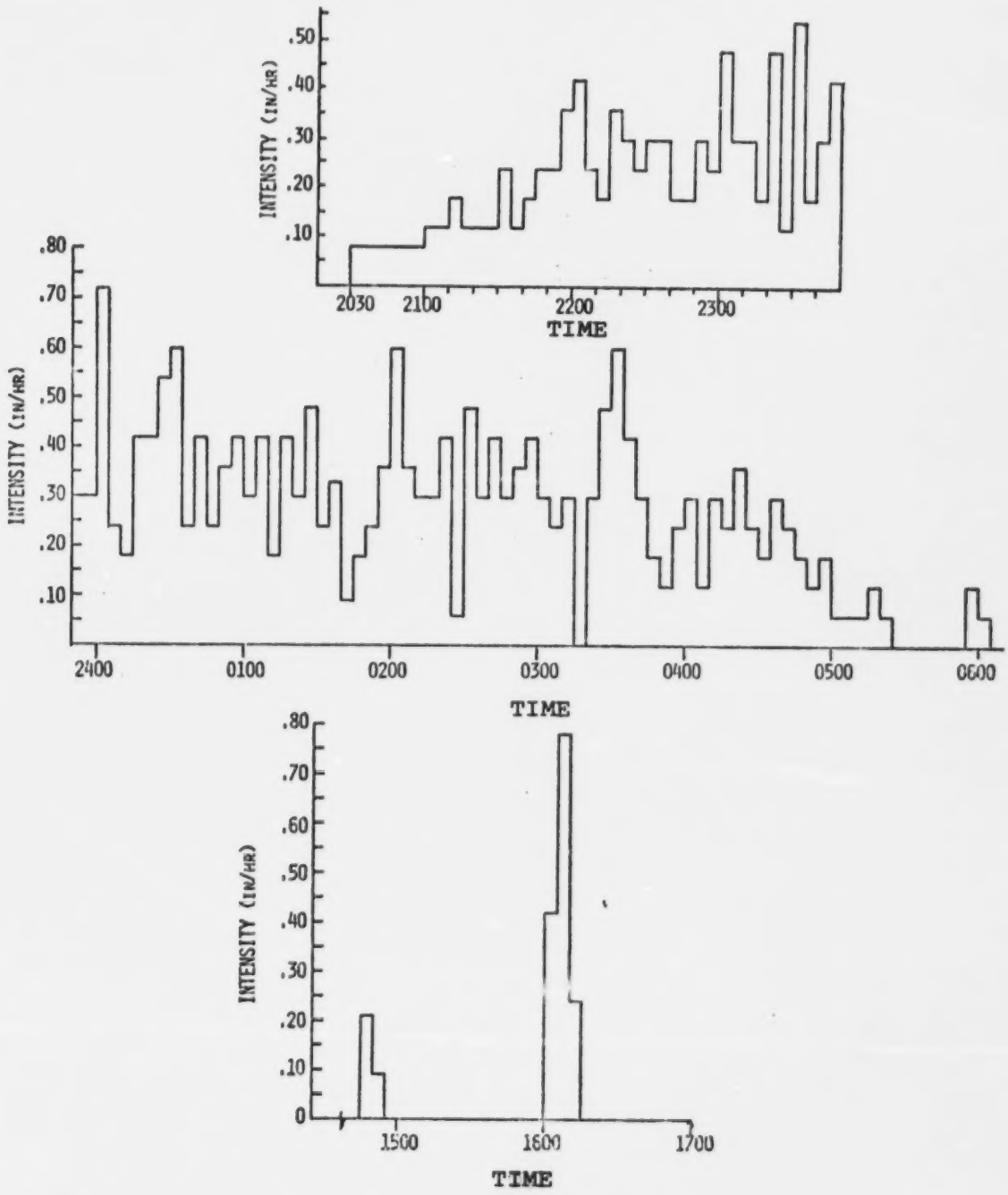


Figure 6-101 RAIN OF FEB. 21 & 22, 1971
RIDGE RAINGAGE
HYETOGRAPHS

Table 6-32 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 22, 1971 MONITORING STATION: Outlet

Time	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl	Coliform
1700	265	750	122	60	156	2564	7.6	200	2700
1707:30	240	840	123	68	150	196	-	200	3800
1715	240	484	118	86	153	272	-	216	4600
1722:30	220	1000	140	75	128	224	-	224	3200
1730	212	586	158	101	119	276	7.5	224	4700
1737:30	200	720	140	101	91	244	-	220	6100
1745	185	858	158	113	97	268	-	216	6300
1752:30	178	2086	579	431	84	750	-	240	6000
1800	167	3742	830	584	222	828	7.4	256	6500
1807:30	160	4462	509	486	216	856	-	248	4900
1815	140	4030	112	44	234	746	-	252	4700
1822:30	135	4320	757	340	234	788	-	258	4800
1830	120	4768	871	430	228	852	7.8	266	3700
1837:30	112	5194	1015	745	222	808	-	224	6500
1845	115	5200	1029	560	228	912	-	288	6900
1852:30	112	5130	1394	551	234	900	-	256	
1900	110	6322	2855	2067	240	880	8.5	248	3000
1907:30	105	7396	3828	2707	240	832	-	264	1100
1915	95	6864	3976	3522	247	788	-	265	-
1922:30	90	8204	4364	2960	240	764	-	248	-
1930	85	7800	4864	4273	253	772	8.2	224	300
1937:30	75	8560	4064	3531	247	824	-	208	200
1945	73	7200	5012	3853	253	808	-	208	-
1952:30	68	9400	6400	5389	256	800	7.4	192	-

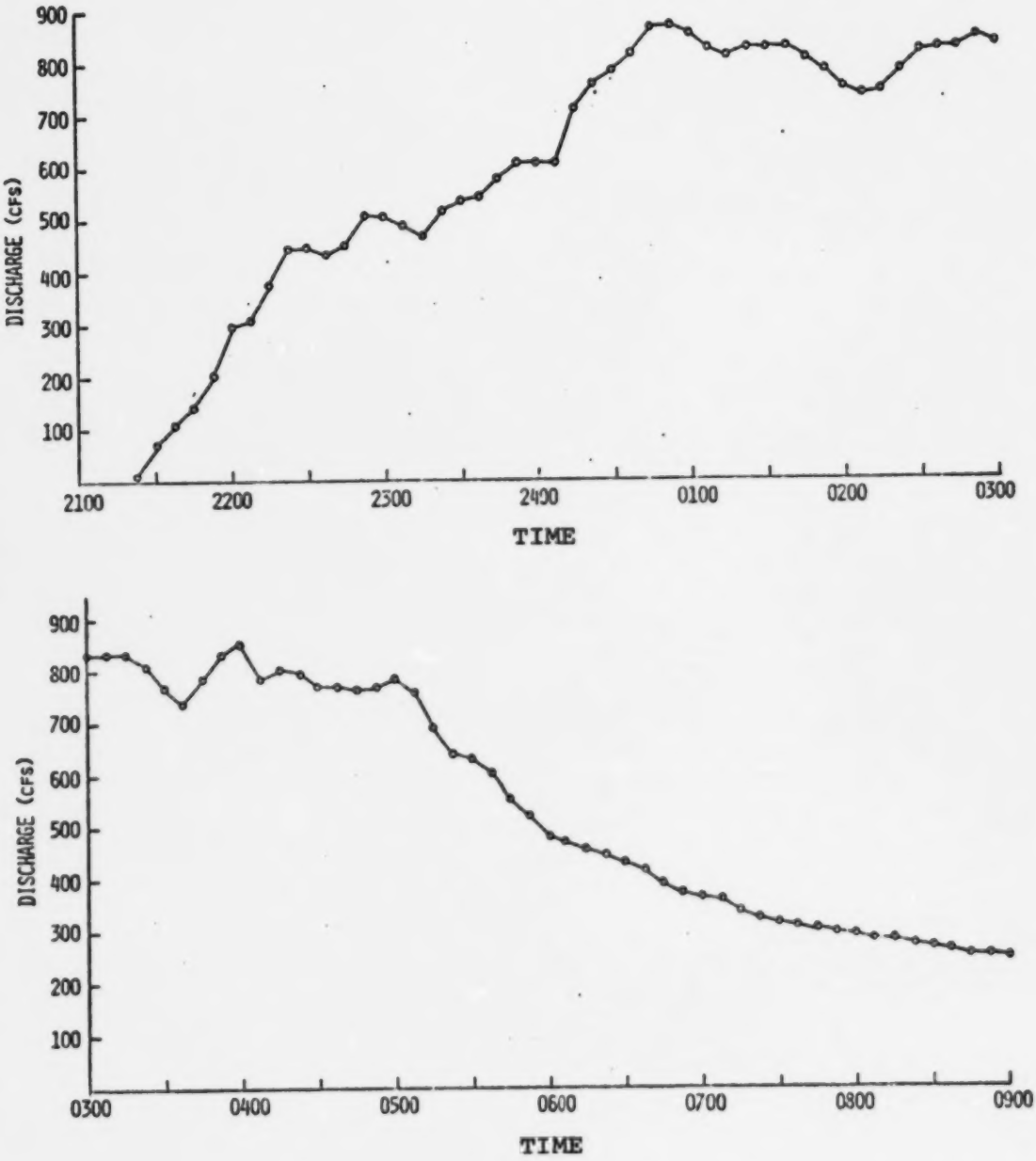


Figure 6-102 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21 & 22, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

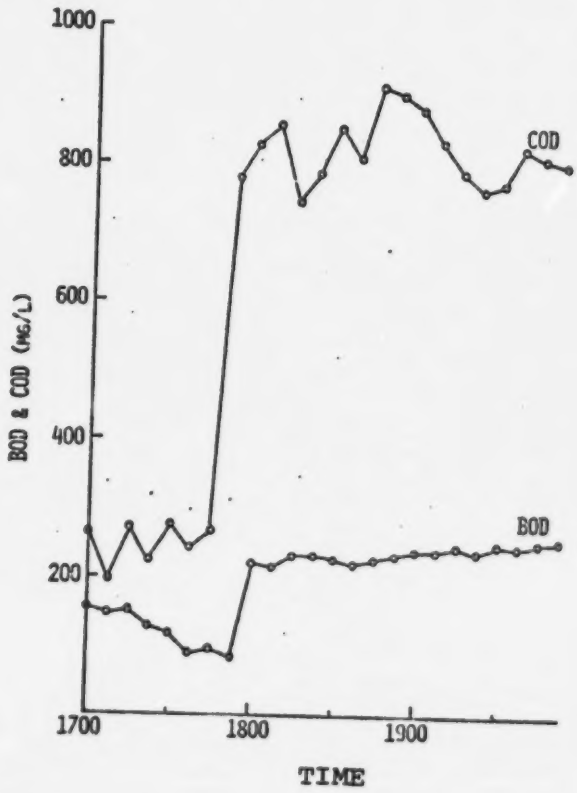


Figure 6-103 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 22, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

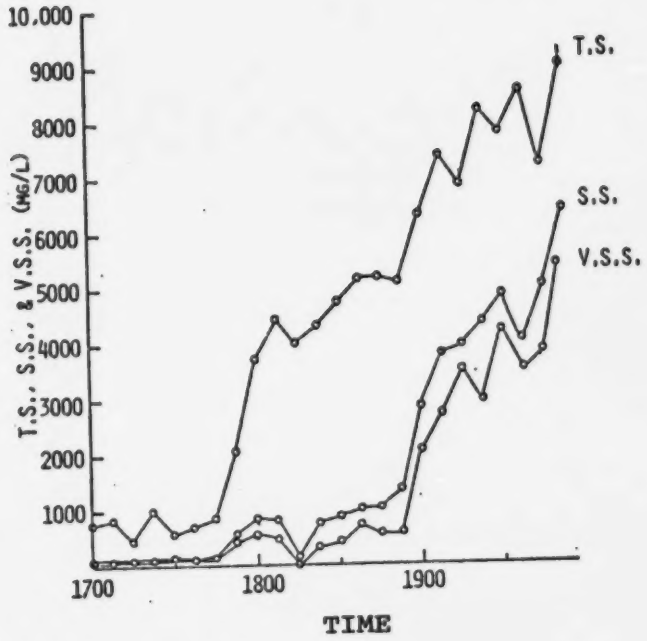


Figure 6-104 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 22, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

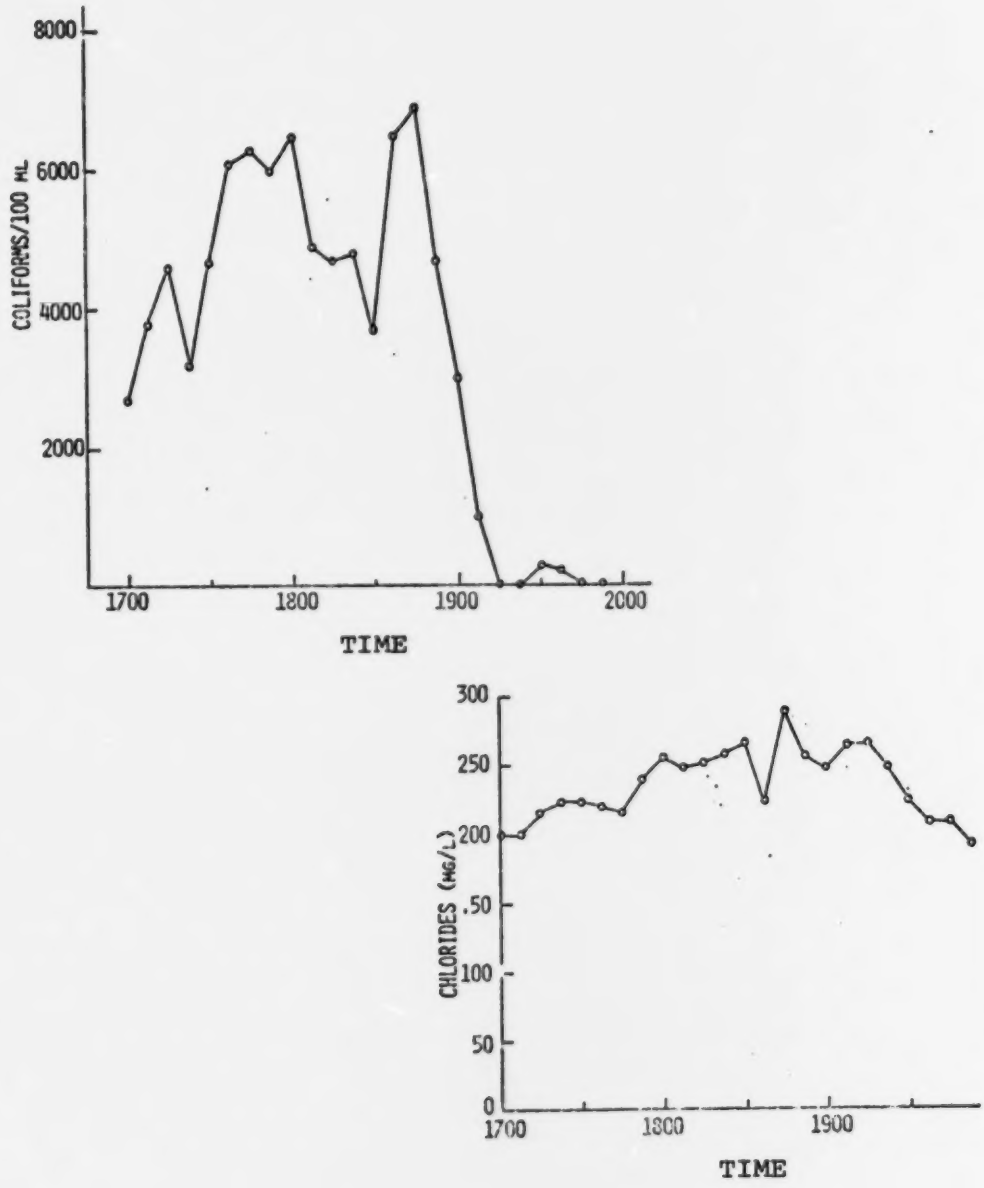


Figure 6-105 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

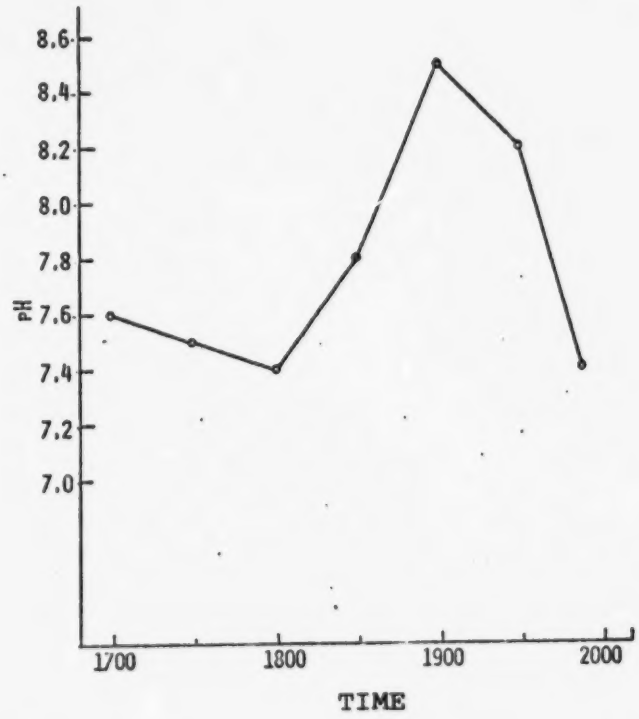


Figure 6-106 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-33 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 21, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr) Ridge Gage	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
2145	.24	41	-	546	456	115	202
2152:30	.24	49	2332	247	198	110	212
2200	.42	71	1506	256	214	112	-
2207:30	.24	70	-	368	119	89	220
2215	.36	73	-	209	226	89	196
2222:30	.3	75	-	951	403	-	-
2230	.3	89	980	190	136	69	224
2237:30	.3	86	1224	392	154	75	220
2245	.18	92	1130	316	256	69	232
2252:30	.3	90	1424	161	114	56	220
2300	.48	89	440	145	87	44	244
2307:30	.3	100	340	246	84	44	200
2315	.3	95	450	191	122	31	140
2322:30	.48	98	-	-	-	38	160
2330	.54	112	-	-	-	38	188
2337:30	.18	118	-	-	-	-	-
2345	.42	117	-	-	-	-	-
2352:30	.3	112	-	-	-	-	-
2400	.72	154	-	-	-	56	172
2407:30	.24	168	-	-	-	63	156
2415	.42	173	440	-	-	50	140
2422:30	.42	206	336	-	-	88	152
2430	.6	222	370	-	-	81	140
2437:30	.24	238	440	-	-	100	116

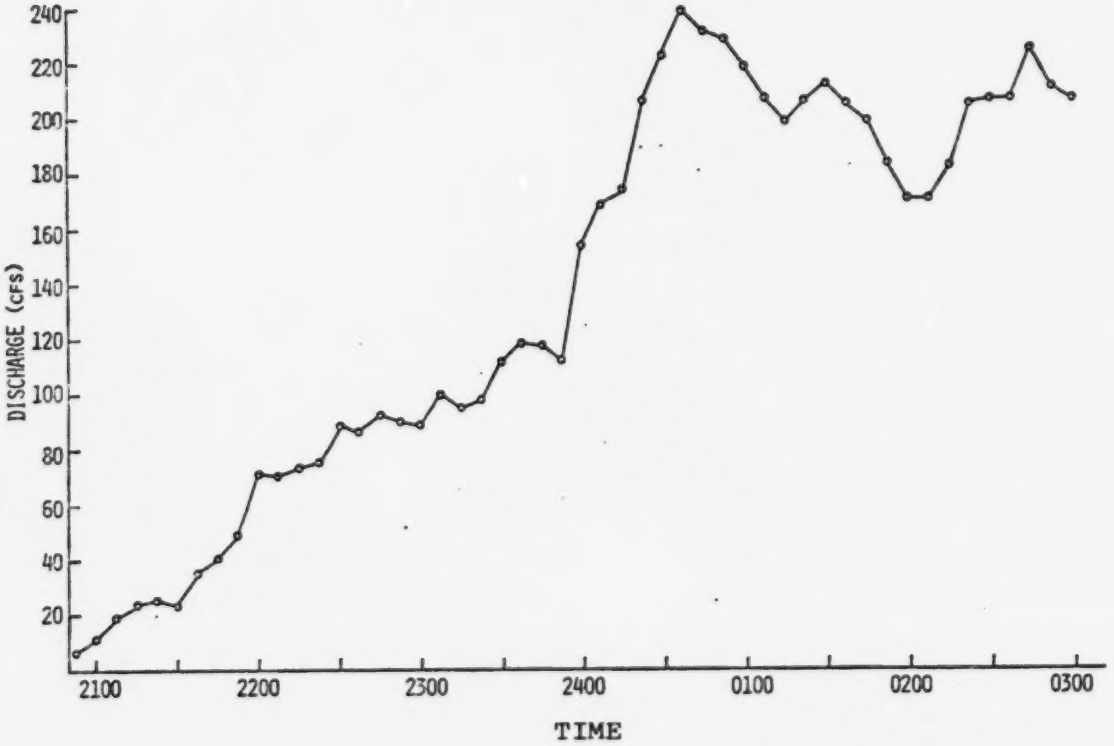


Figure 6-107 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21 & 22, 1971
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

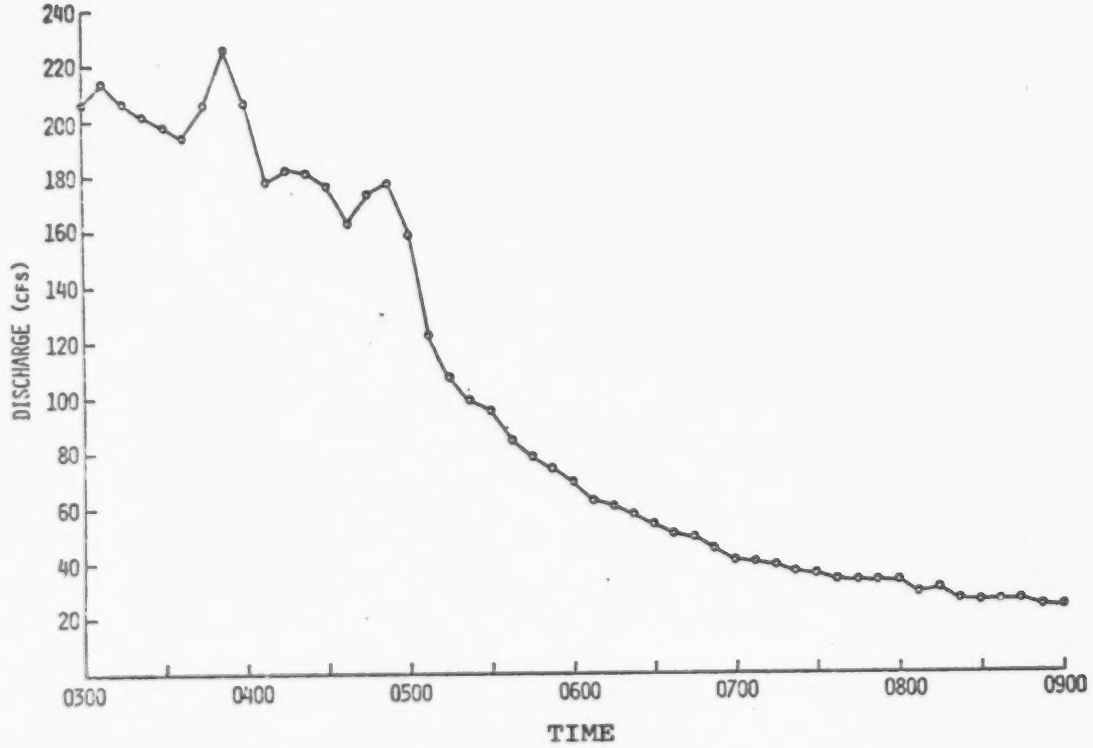


Figure 6-108 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 22, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

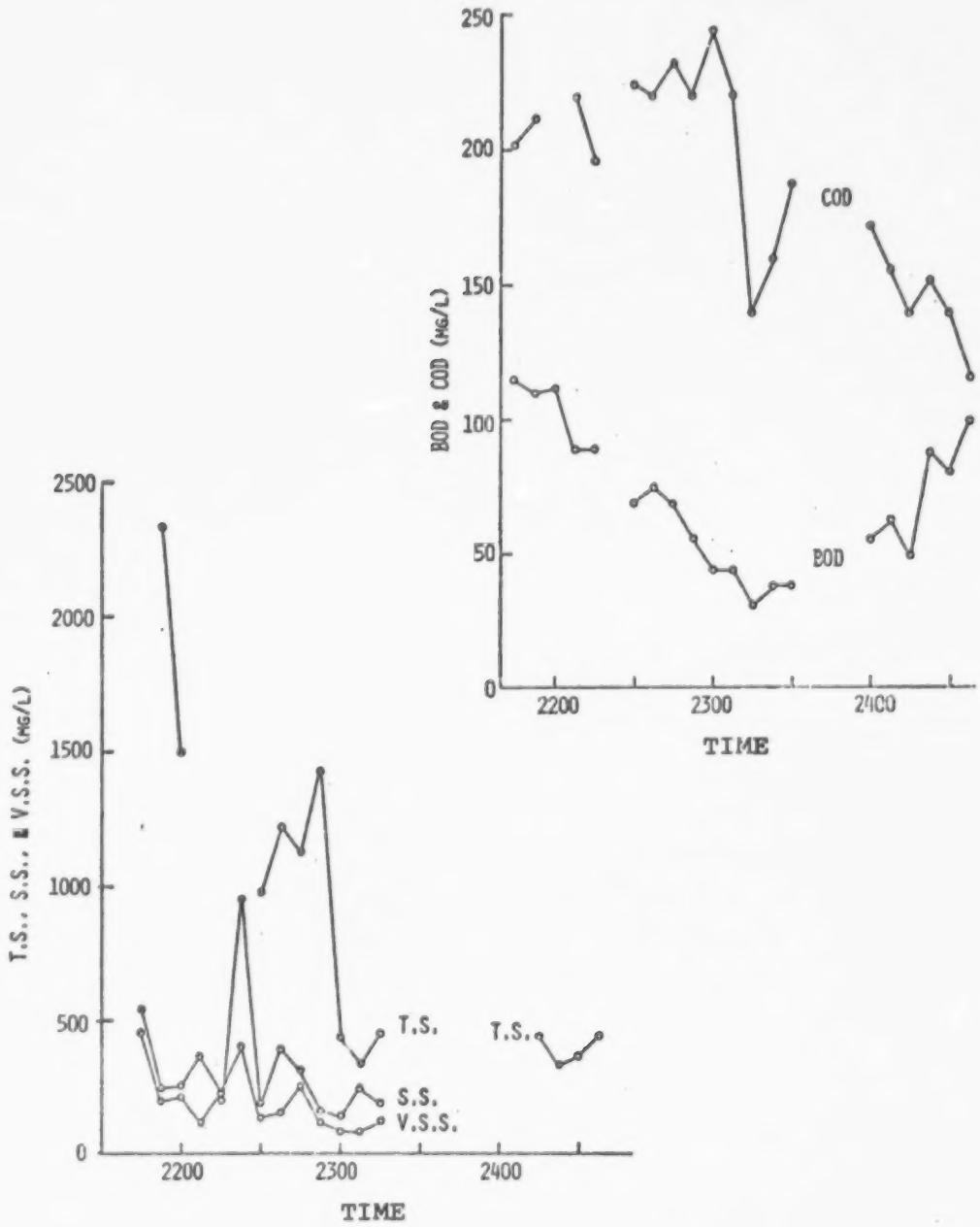


Figure 6-109 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

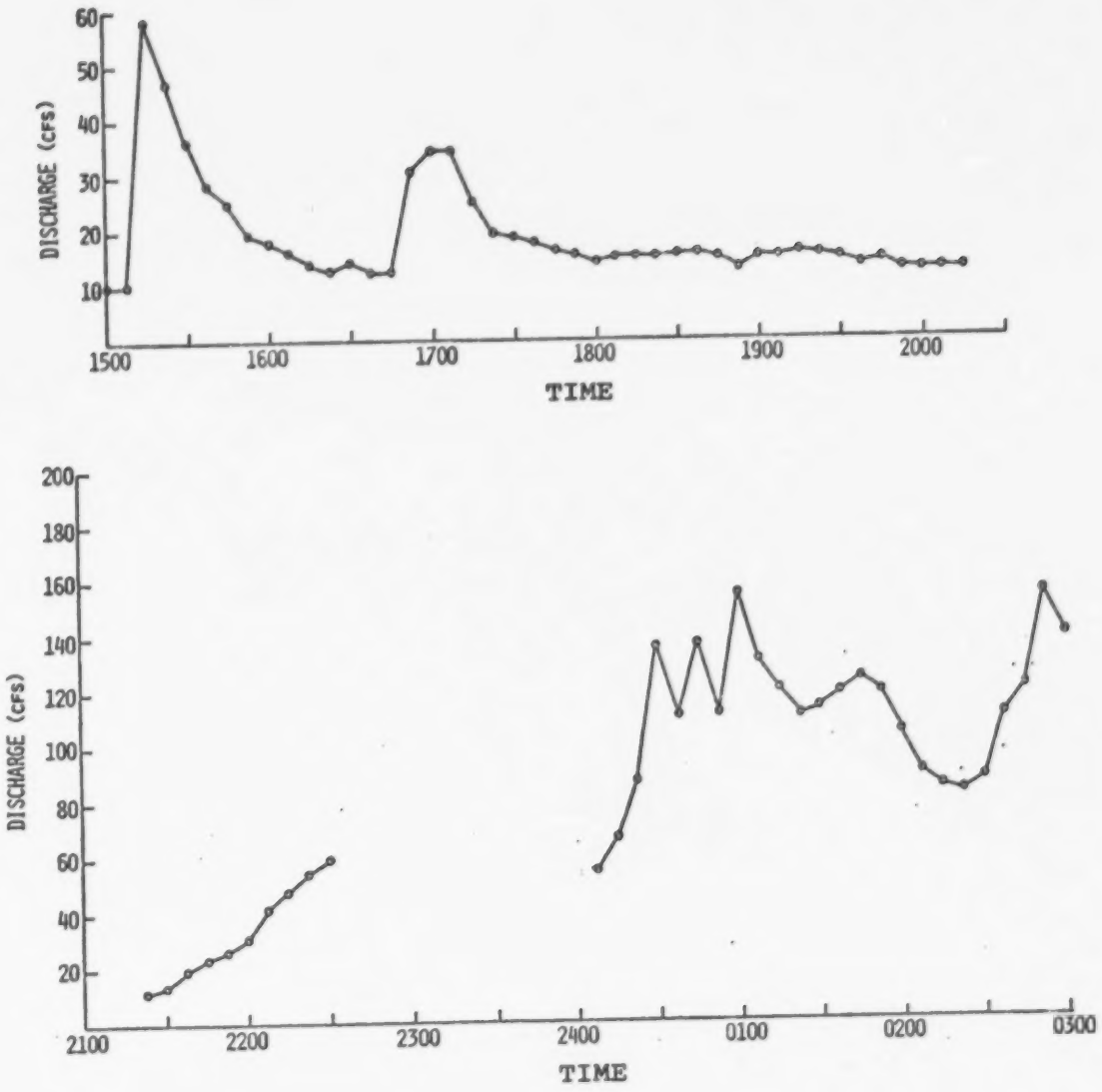


Figure 6-110 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21 & 22, 1971
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

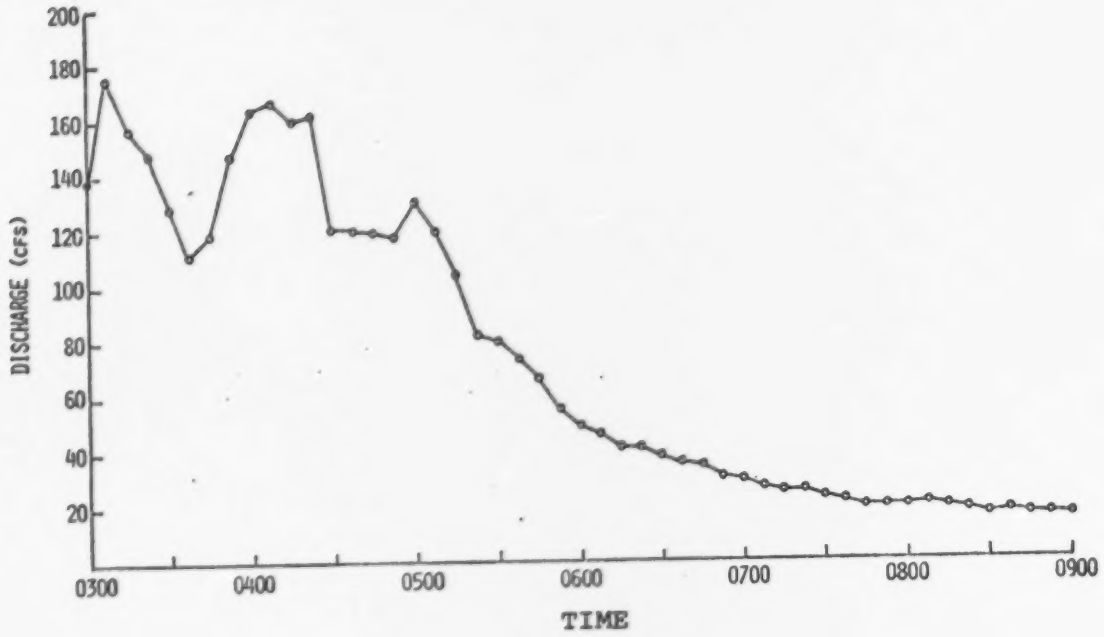
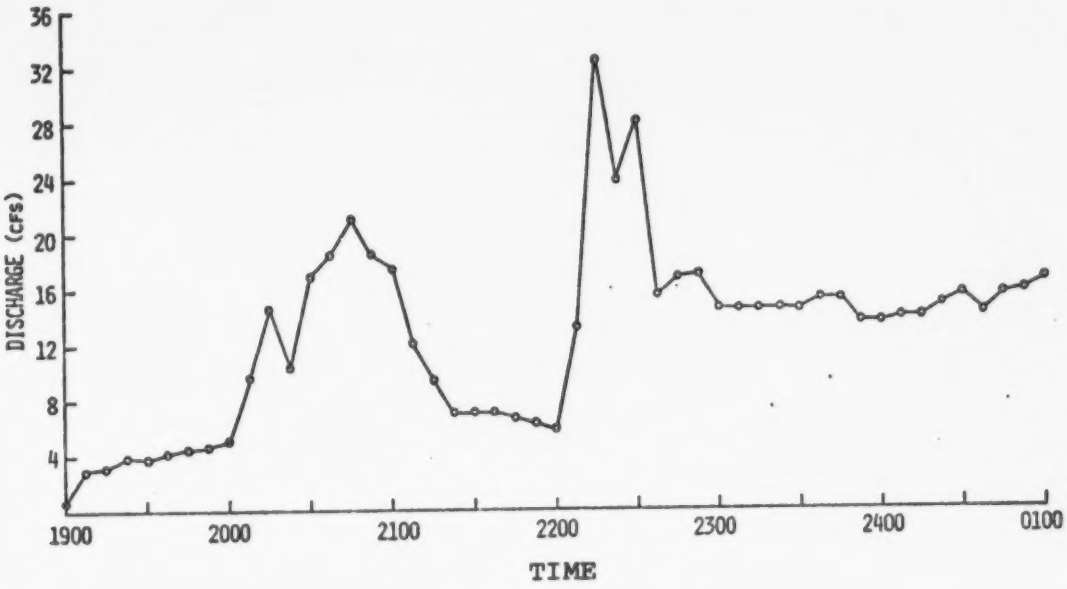


Figure 6-111 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21 & 22, 1971
MONITORING STATION: LONGVIEW -
11' x 9' SEWER



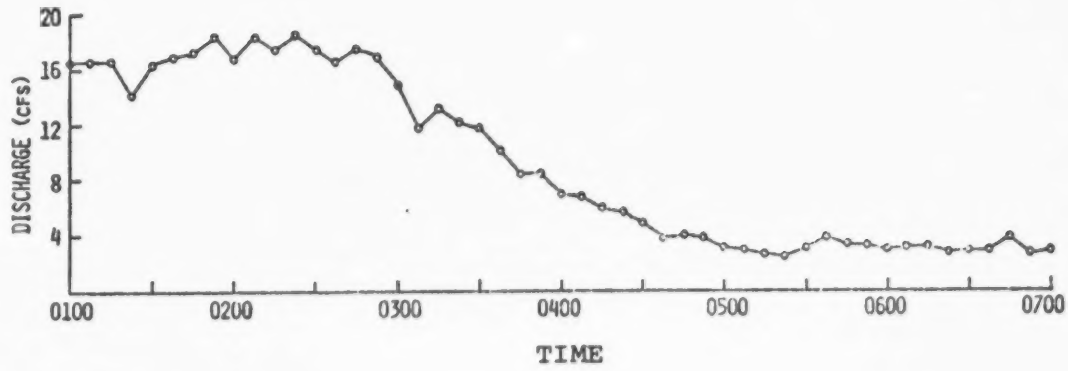


Figure 6-112 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21 & 22, 1971
MONITORING STATION: BANK -
78" SEWER

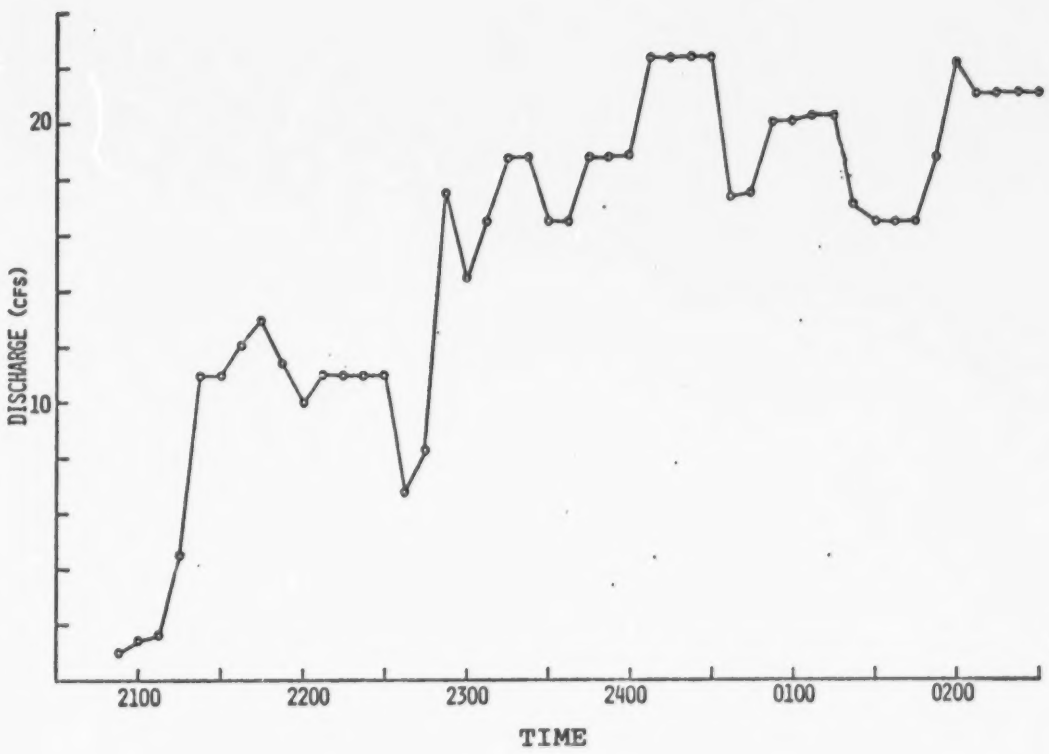


Figure 6-113 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 21 & 22, 1971
MONITORING STATION: BANK -
54" SEWER

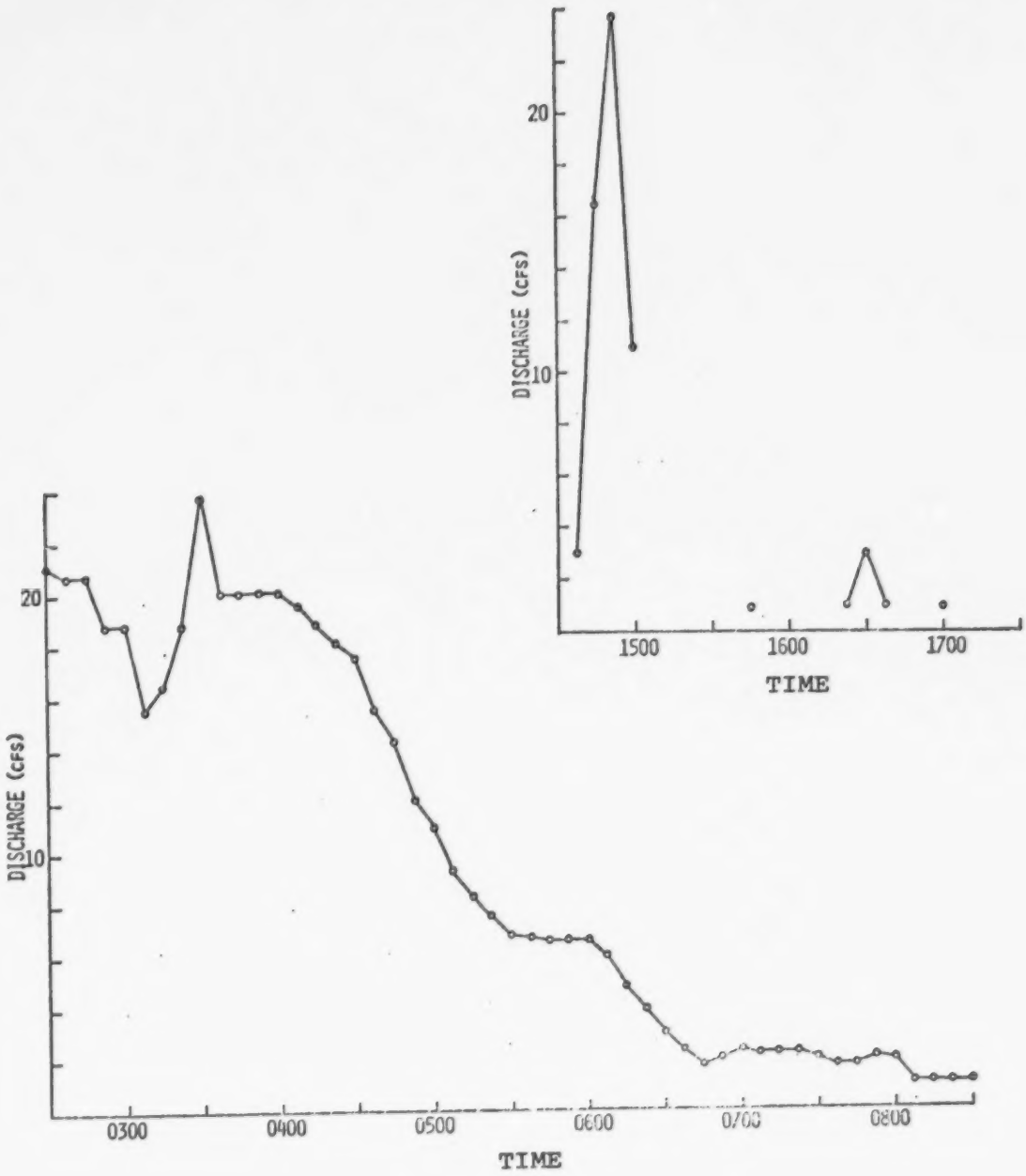
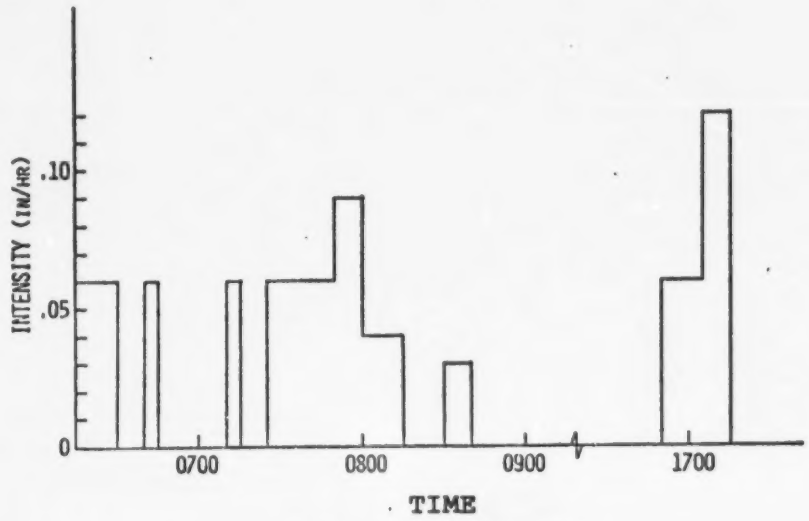
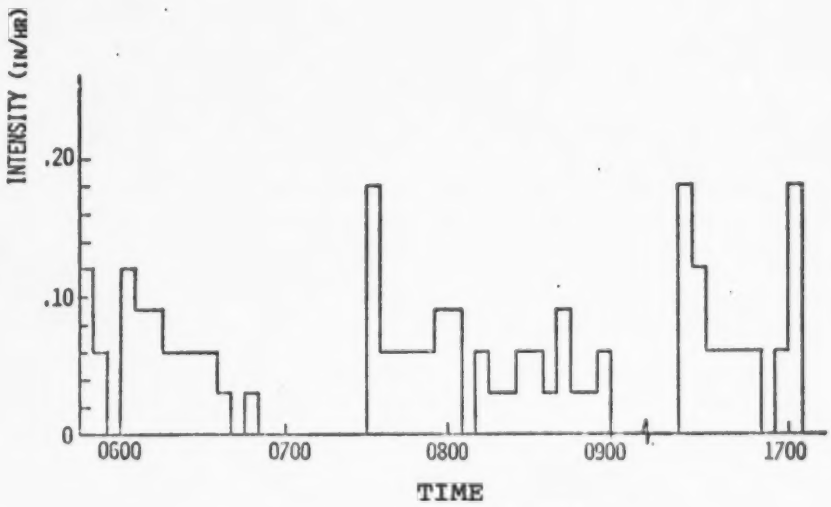


Figure 6-114 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 22, 1971
MONITORING STATION: BANK
54" SEWER



"LAIDLAW RAINGAGE"



"RIDGE RAINGAGE"

Figure 6-115 RAIN OF FEB. 26, 1971
HYETOGRAPHS

Table 6-34 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 26, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	BOD	COD	pH	Cl	Coliform
	Laidlaw Gage	Ridge Gage								
0747:30	.06	.06	38	1940	428	187	652	7.8	444	3100
0755	.09	.09	72	1442	711	180	672	-	407	3400
0802:30	.04	.09	88	1064	652	156	420	-	324	2100
0810	.04	.06	85.5	724	481	137	340	7.6	315	900
0817:30	-	.03	74	978	711	125	344	-	278	3700
0825	-	.06	56	1050	814	130	344	-	306	4600
0832:30	.03	.06	50	1140	652	144	360	-	296	1900
0840	.03	.09	48	1252	628	162	276	7.5	324	700
0847:30	-	.03	42.5	1148	490	156	-	-	-	1600

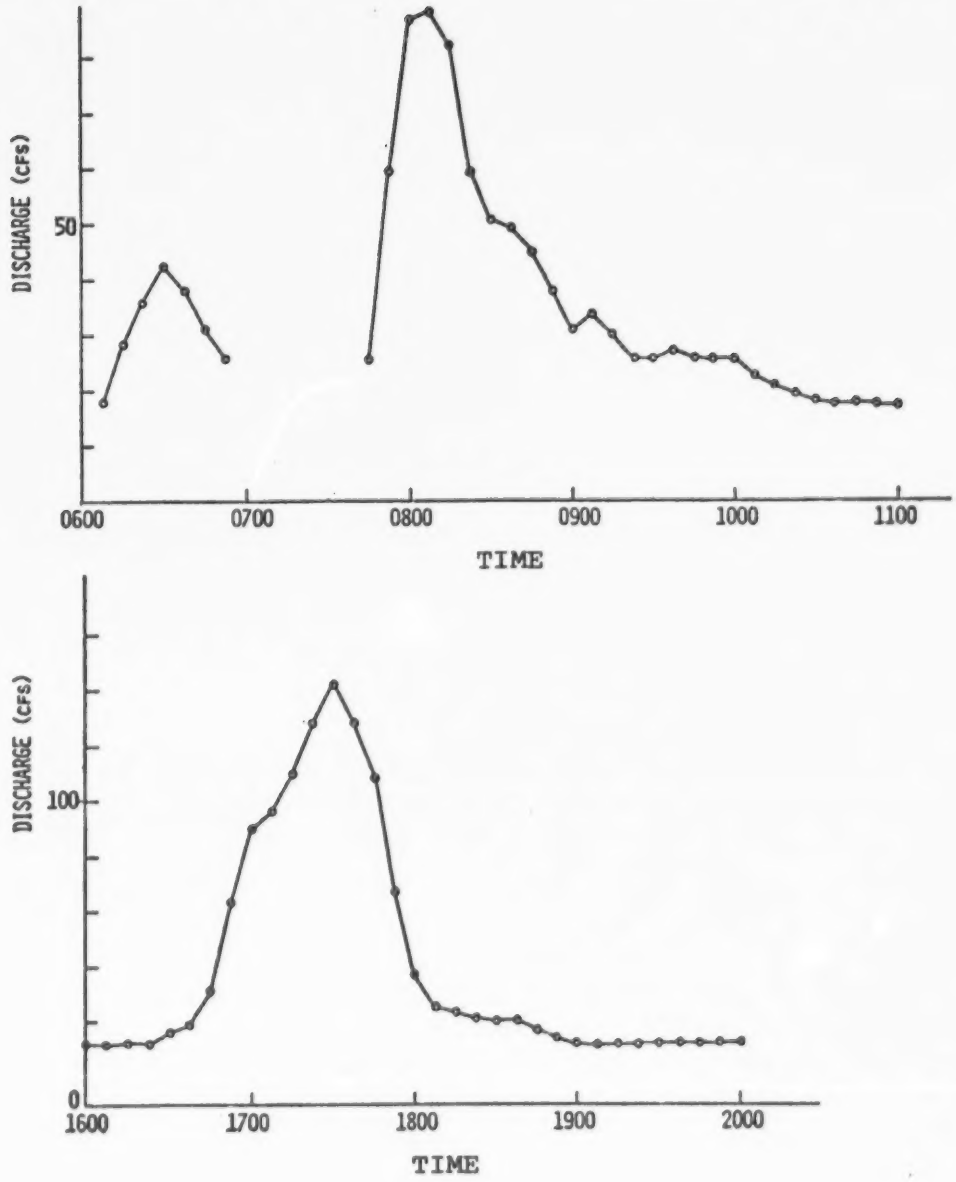


Figure 6-116 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 26, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

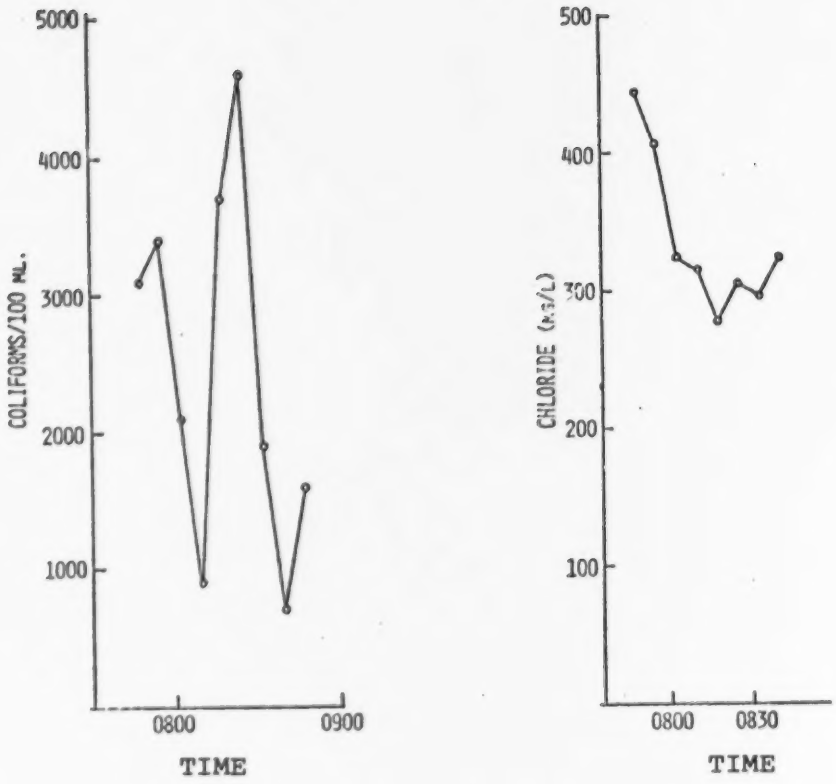


Figure 6-117 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 26, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

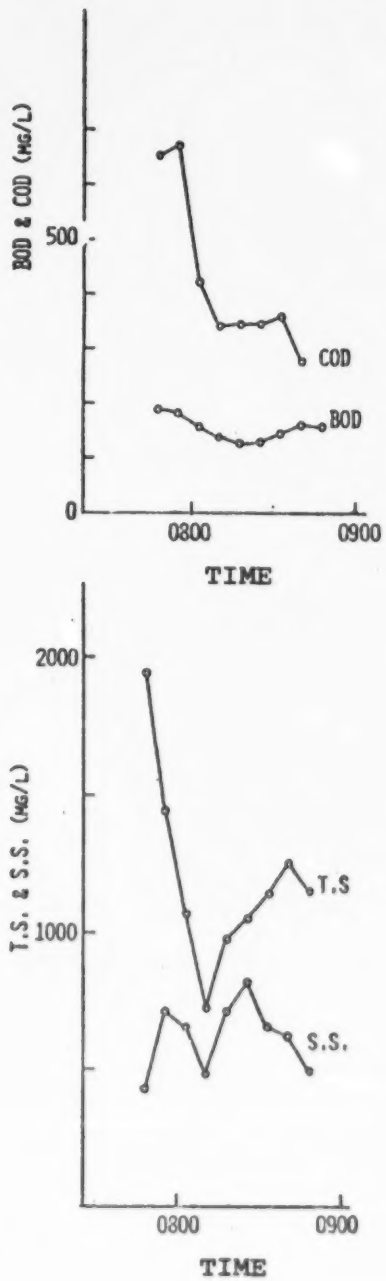


Figure 6-118 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 26, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

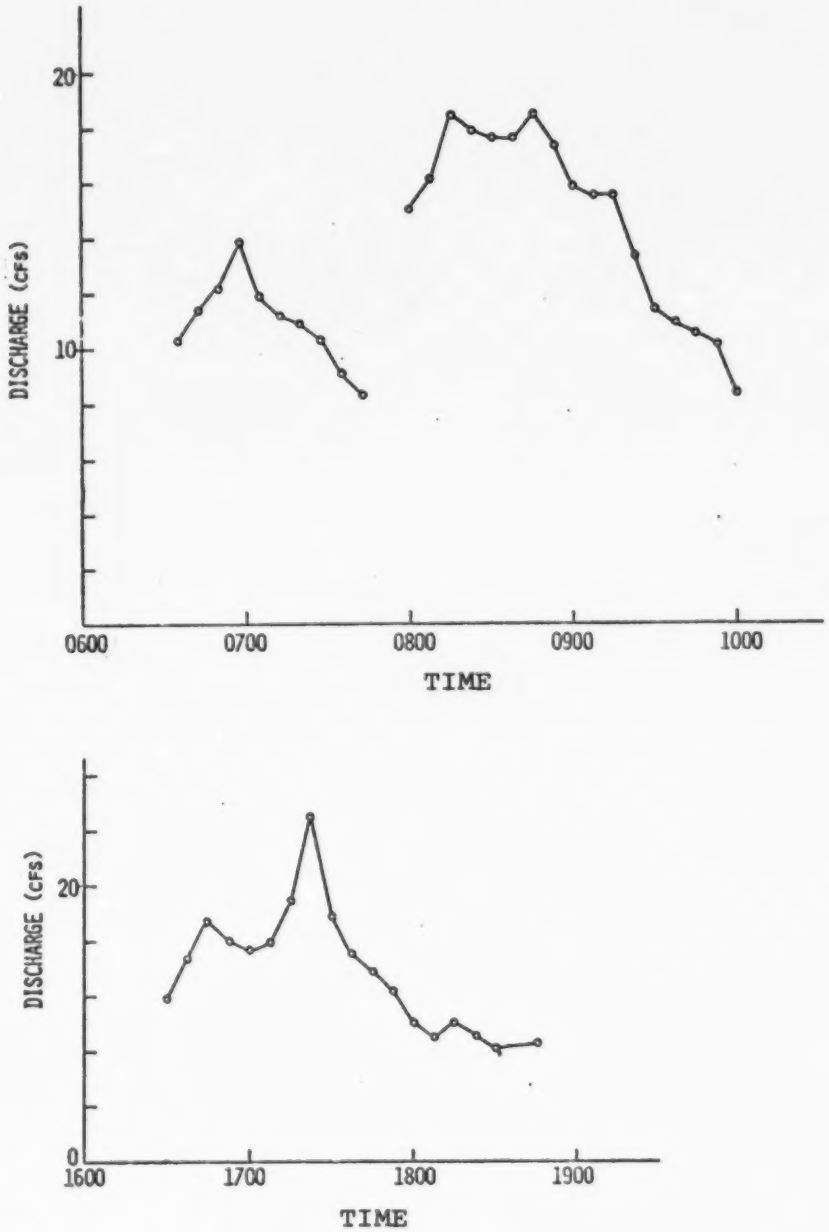


Figure 6-119 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: FEB. 26, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

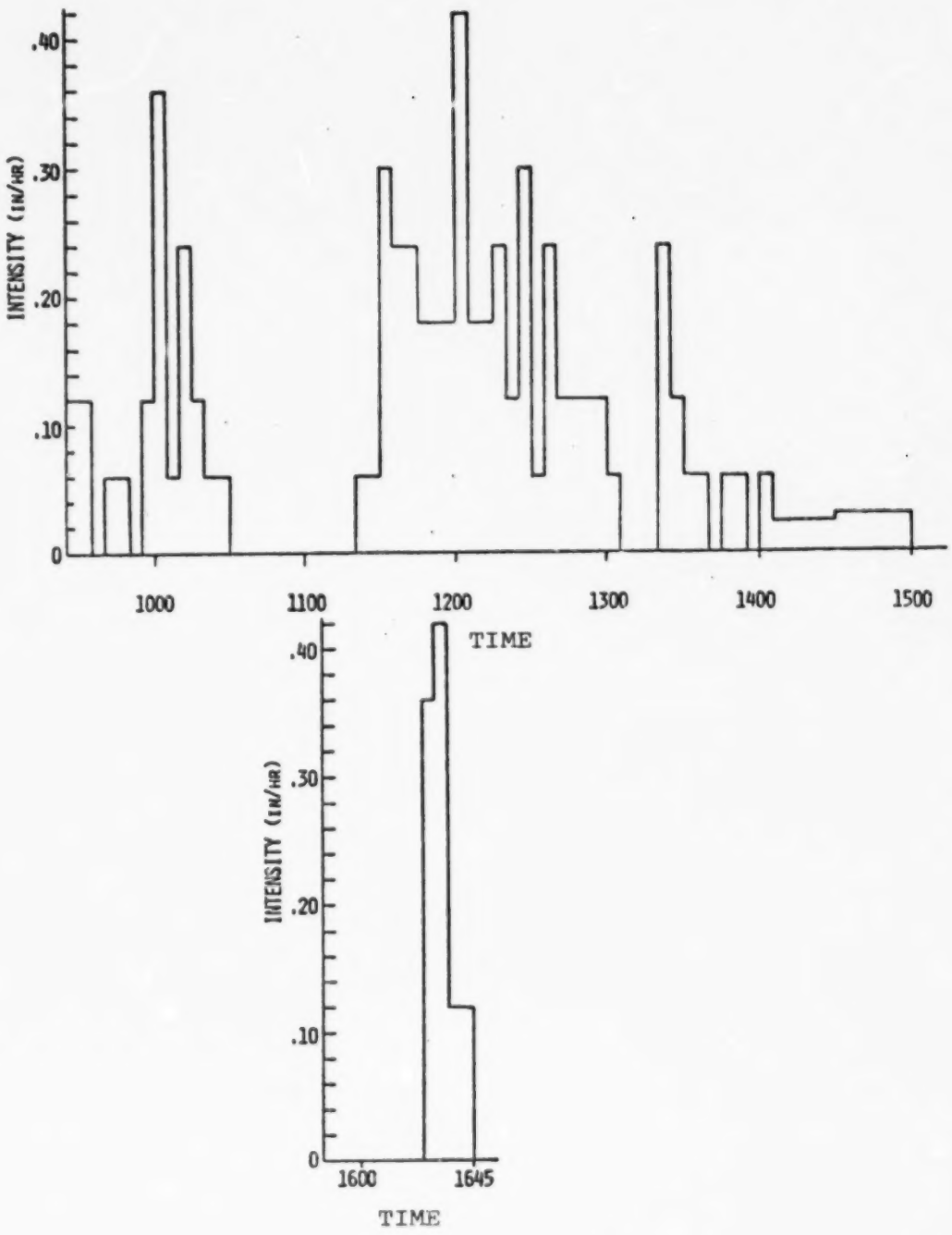


Figure 6-120 RAINFALL OF MAR. 6, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

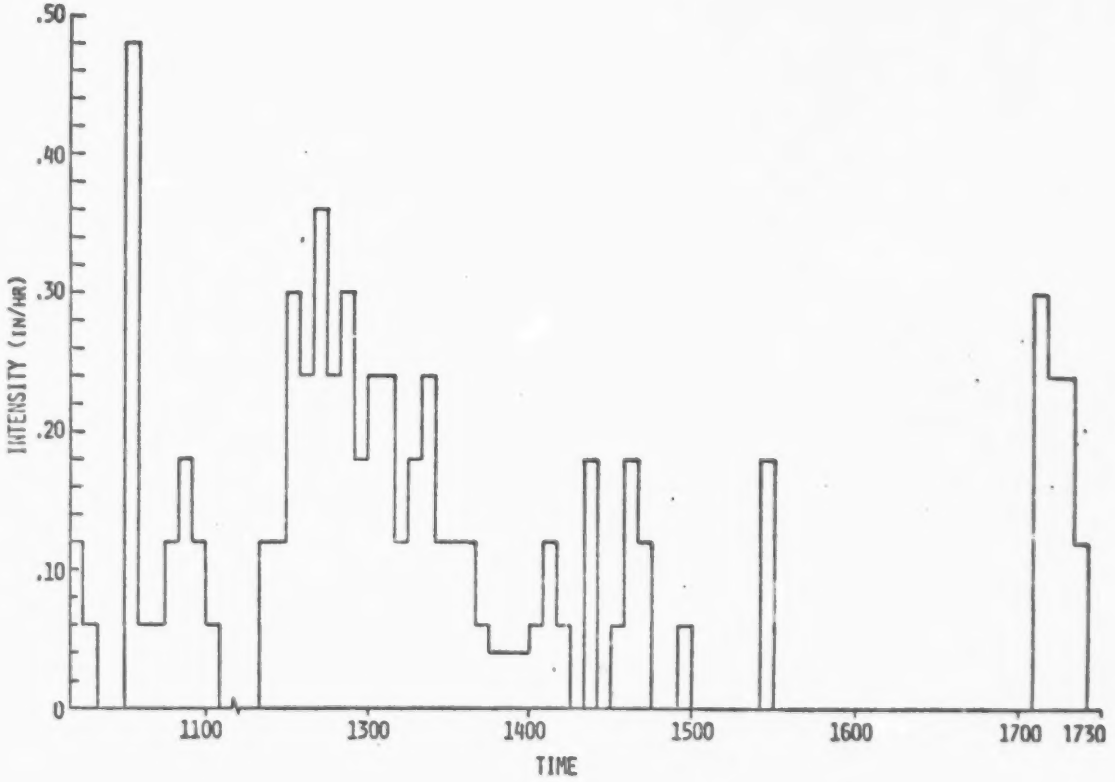


Figure 6-121 RAINFALL OF MAR. 6, 1971
RIDGE RAINGAGE
HYETOGRAPH

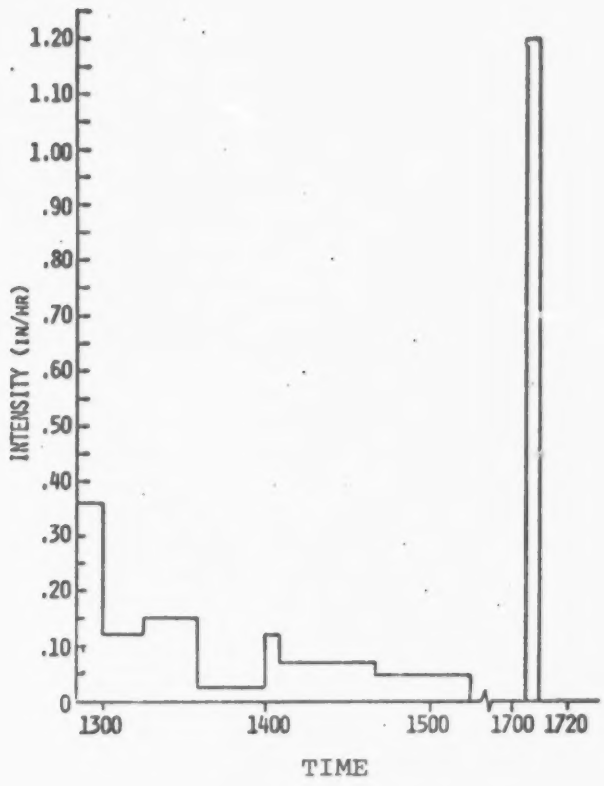


Figure 6-122 RAINFALL OF MAR. 6, 1971
WOODWARD RAINGAGE
HYETOGRAPH

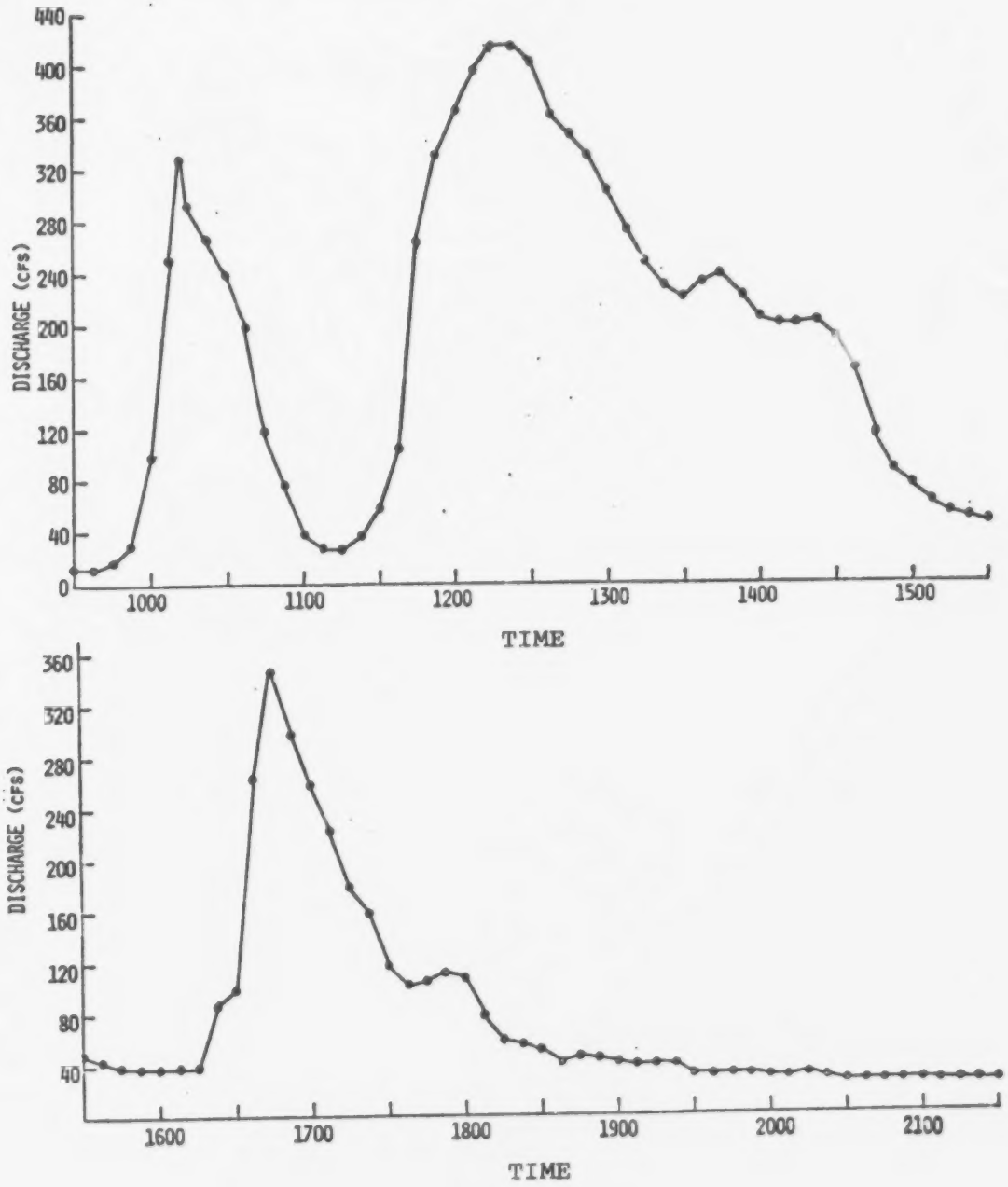


Figure 6-123 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-35 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 6, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Woodward Gage	Ridge Gage						
1700	-	-	9.5	-	-	-	-	-
1707:30	1.2	.3	10	-	-	-	-	-
1715	-	.24	11	860	97	41	-	-
1722:30	-	.12	35	758	72	36	100	288
1730	-	-	62	582	104	38	94	236
1737:30	-	-	49	230	111	64	87	152
1745	-	-	36	382	227	121	78	172
1752:30	-	-	24	240	127	104	75	120
1800	-	-	21	588	236	176	212	112
1807:30	-	-	15.5	-	224	181	75	180
1815	-	-	14.5	-	54	16	69	96
1822:30	-	-	16	-	227	184	63	112
1830	-	-	19.5	-	240	171	50	148
1837:30	-	-	17	-	229	121	212	132
1845	-	-	15.5	522	222	162	168	172
1852:30	-	-	13.5	474	143	171	94	240
1900	-	-	11	504	222	105	156	236
1907:30	-	-	11	532	176	109	81	240
1915	-	-	11	200	149	107	75	900
1922:30	-	-	11	80	130	-	75	492
1930	-	-	11	212	138	-	69	780
1937:30	-	-	10.5	314	131	79	-	412
1945	-	-	9.5	240	100	86	63	444
1952:30	-	-	9	260	96	42	-	620

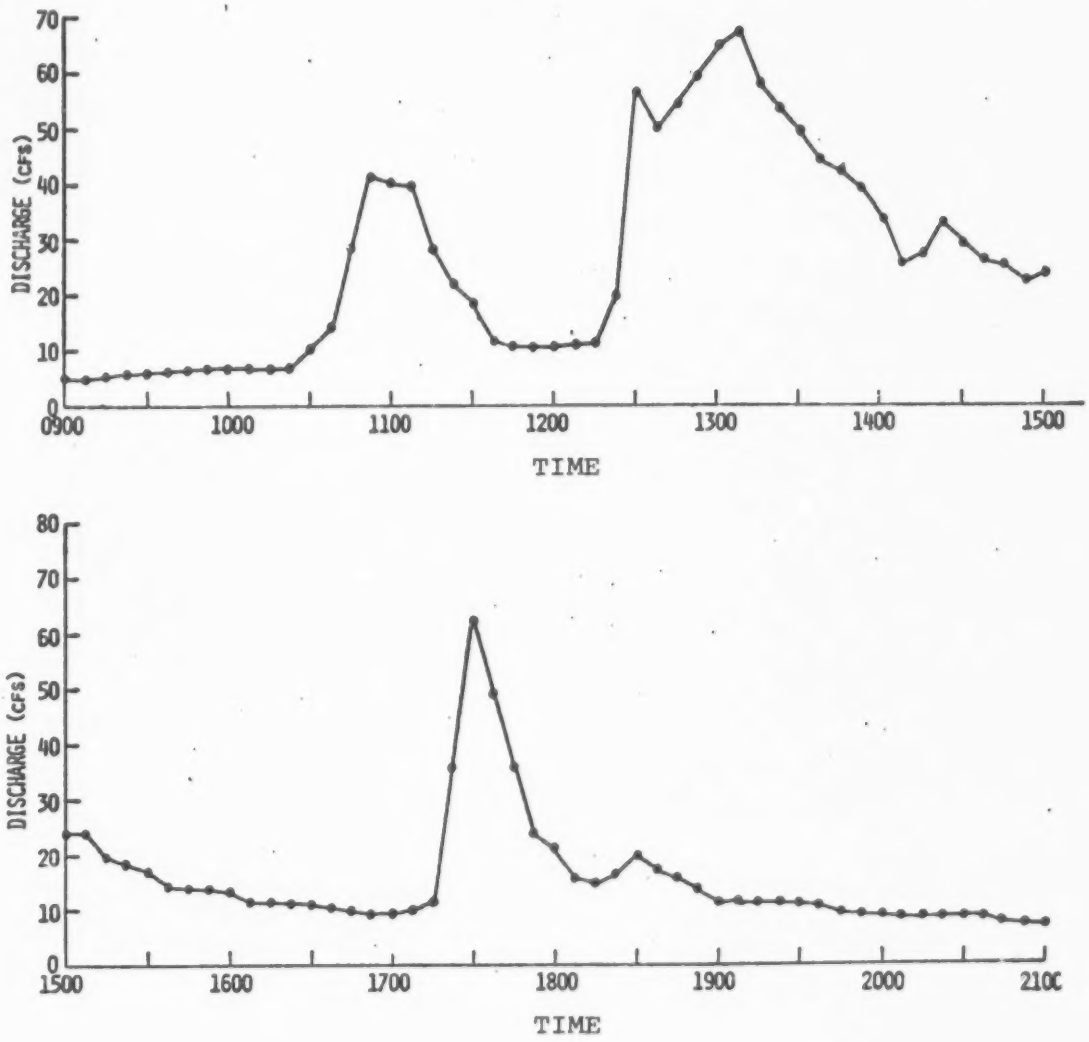


Figure 6-124 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

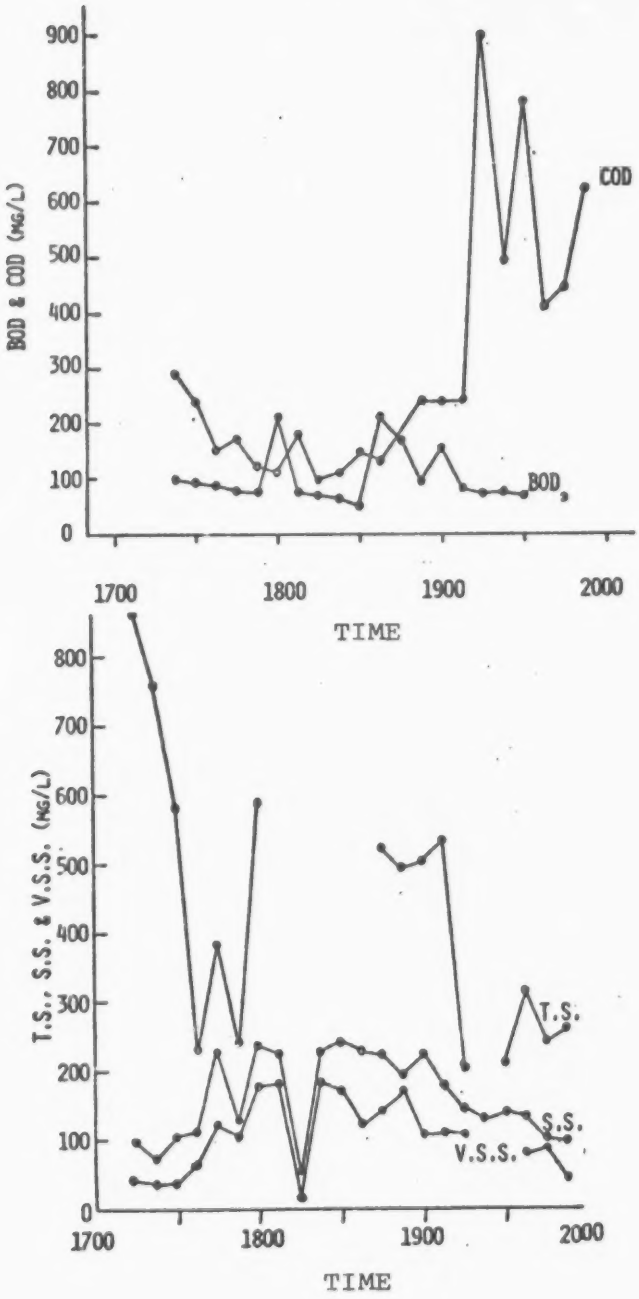


Figure 6-125 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

Table 6-36 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 6, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage						
1040	-	-	.06	17	4384	231	117	250	200
1047:30	-	-	.12	37	3450	14	5	240	240
1055	-	-	.18	46	1390	75	40	220	380
1102:30	-	-	.06	38	800	63	40	210	120
1110	-	-	-	31.5	530	100	55	170	60
1117:30	-	-	-	27	298	100	60	200	72
1125	.06	-	-	19.5	1580	100	60	230	56
1132:30	.3	-	-	18.5	1250	110	70	240	56
1140	.24	-	-	14.5	1250	55	20	240	88
1217:30	.24	-	-	16	1398	106	78	240	72
1225	.3	-	.12	28	1140	98	48	235	64
1232:30	.06	-	.3	36	1120	214	125	235	64
1240	.12	-	.36	42.5	1910	-	-	230	40
1247:30	.12	-	.24	52.5	2144	90	50	235	32
1255	.12	.36	.3	62.7	2060	241	126		52
1302:30	.06	.12	.24	57	1826	332	192		40
1310	-	.12	.24	51	2200	325	174	210	44
1317:30	-	.15	.18	45	2350	219	112	220	40
1325	.24	.15	.24	42	2088	239	129	220	32
1332:30	.06	.15	.12	41	2144	201	103	210	48
1340	.06	.025	.12	40	2120	623	313	210	40
1347:30	.06	.025	.04	35	2938	671	361	200	44
1355	.06	.025	.04	32	2192	608	310	200	40
1402:30	.06	.12	.06	27	2640	-	-	170	42

Table 6-37 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 6, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr) Ridge Gage	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
1715	.24	16	200	117	72	172	1056
1722:30	.12	41	80	55	35	172	856
1730	-	47	120	32	22	178	376
1737:30	-	36	160	16	10	138	304
1745	-	30	240	58	34	190	248
1752:30	-	25	252	40	20	172	344
1800	-	19	180	20	10	153	1016
1807:30	-	19.5	160	85	55	153	800
1815	-	19.5	40	60	35	147	792
1822:30	-	19.5	150	48	28	140	-
1830	-	20.5	200	64	34	147	880
1837:30	-	19.5	320	123	73	150	880
1845	-	16.5	100	43	20	147	856
1852:30	-	16.5	280	105	55	140	1144
1900	-	16	80	20	18	128	1232
1907:30	-	16	108	54	29	134	1608
1915	-	16	220	73	40	134	1688
1922:30	-	16	250	37	27	134	1720
1930	-	16	130	18	3	140	1760
1937:30	-	16	184	20	12	134	1728
1945	-	16	204	20	5	137	1816
1952:30	-	16	220	28	6	147	1944
2000	-	16	140	39	19	140	2000
2007:30	-	15.5	256	20	5	140	2000

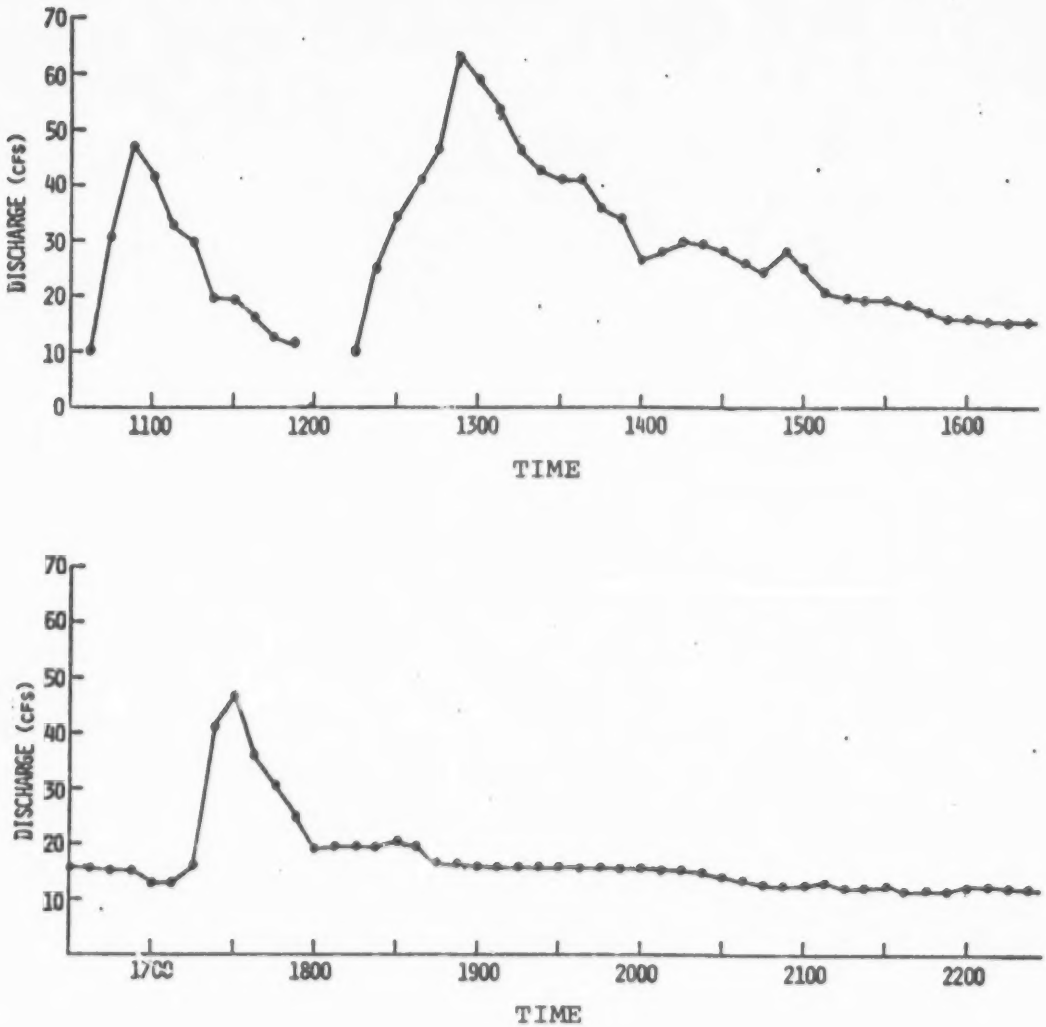


Figure 6-126 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

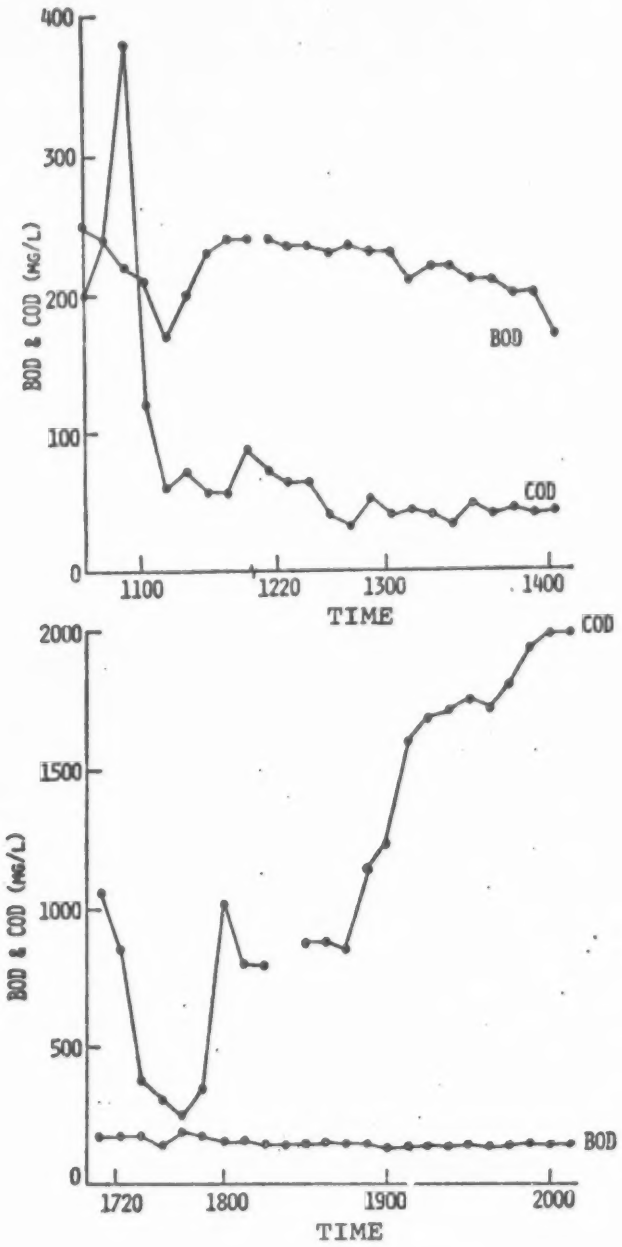


Figure 6-127 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

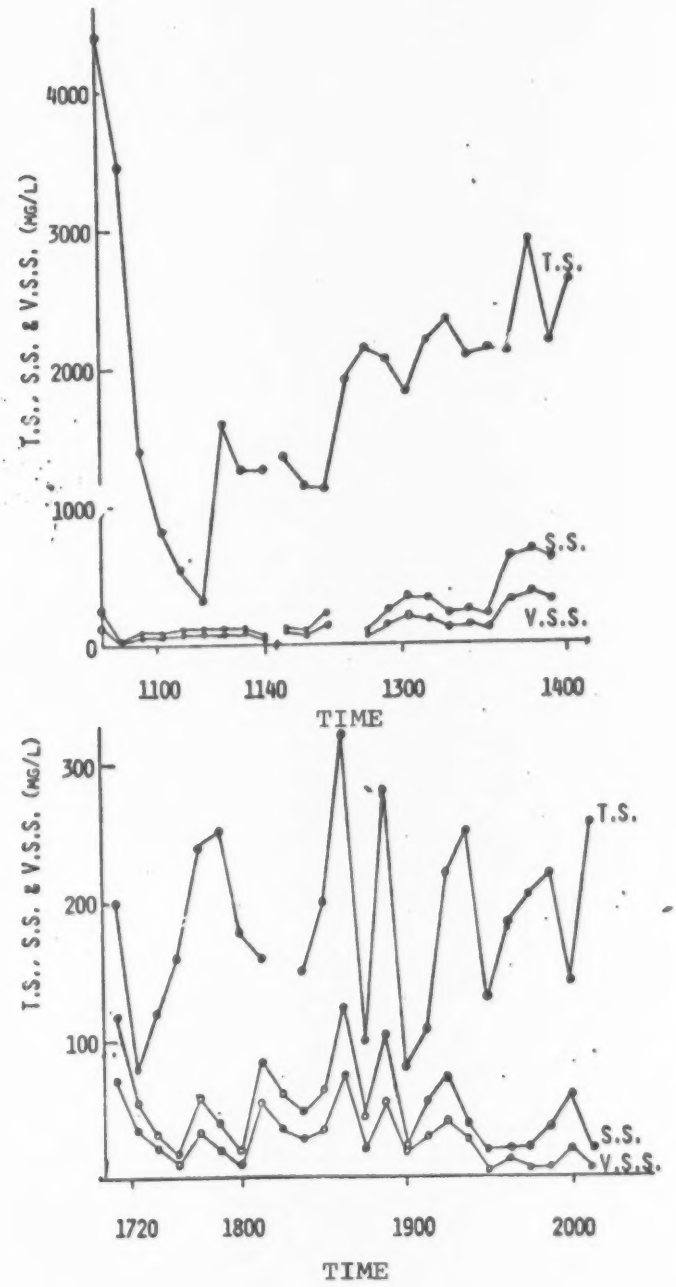
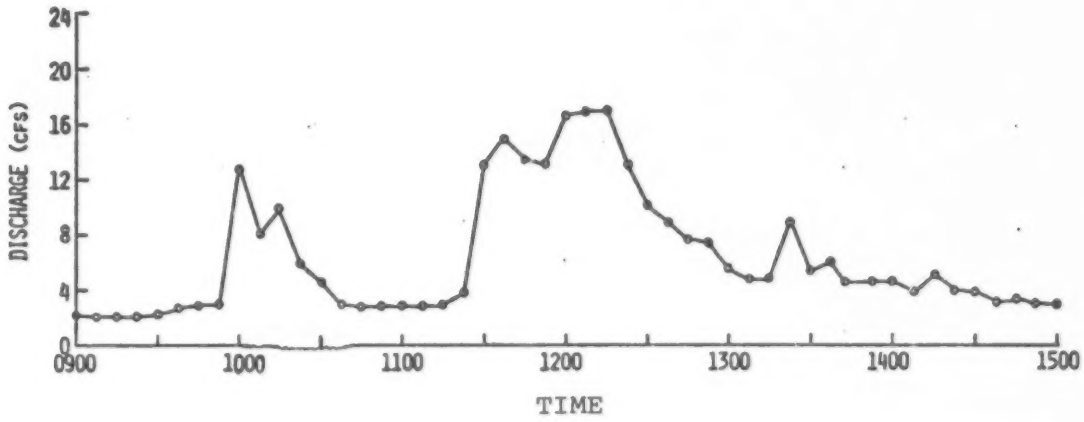


Figure 6-128 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER



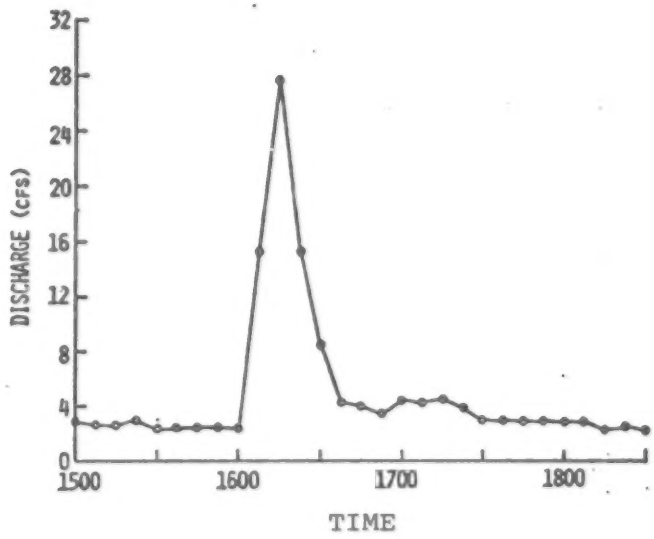


Figure 6-129 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: BANK - 78" SEWER

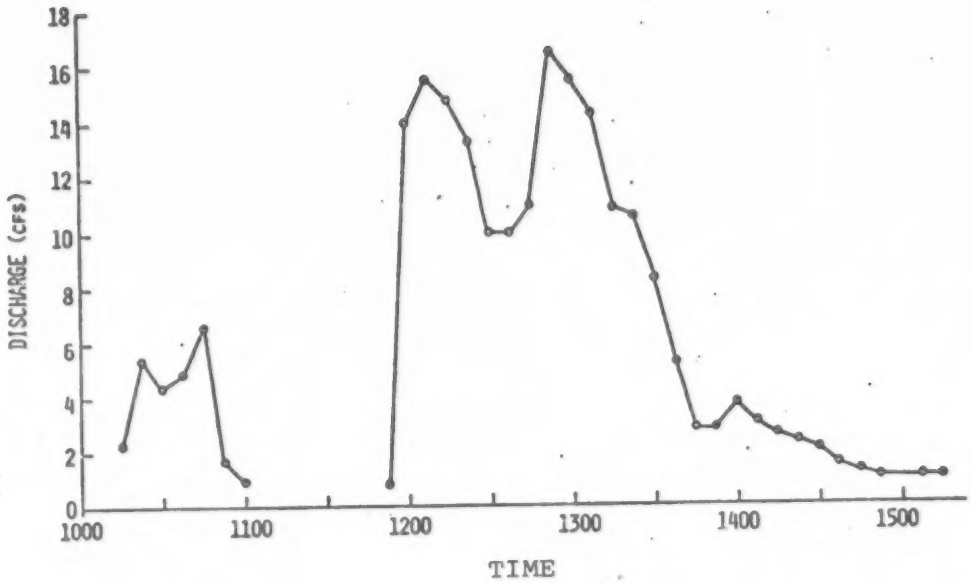


Figure 6-130 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 6, 1971
MONITORING STATION: BANK - 54" SEWER

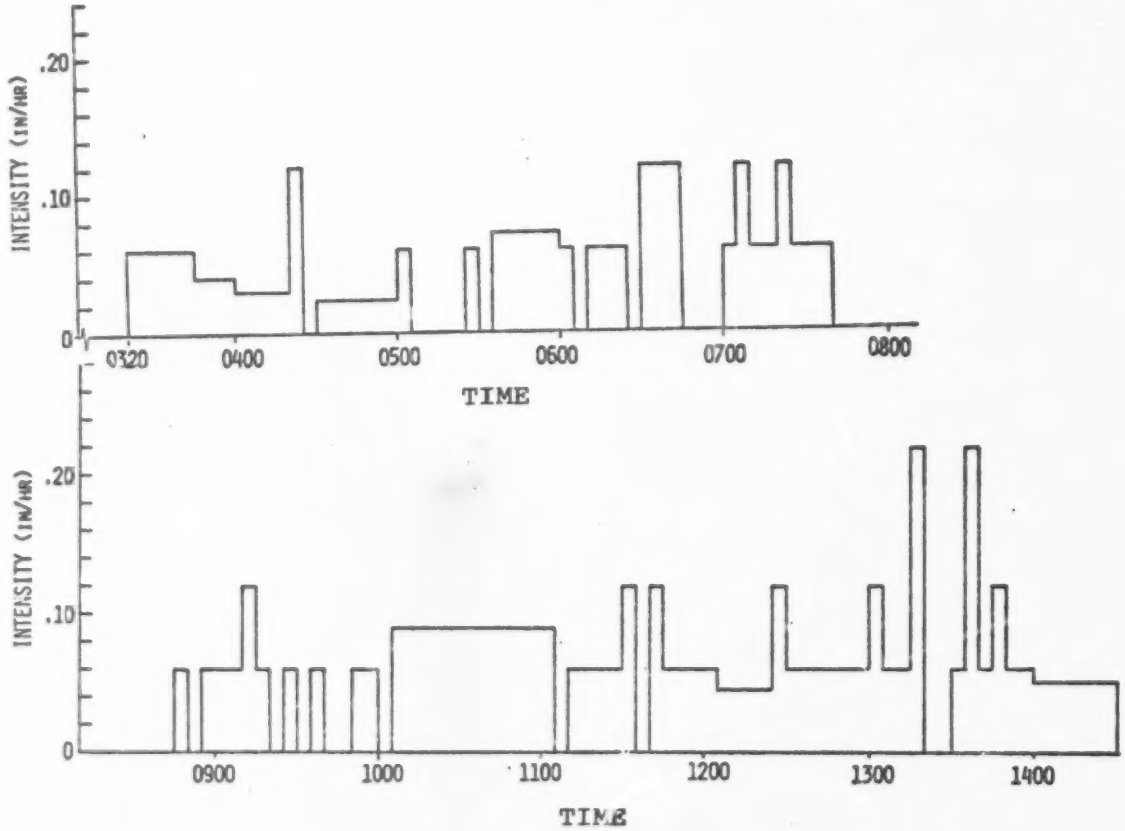


Figure 6-131 RAIN OF MAR. 10, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

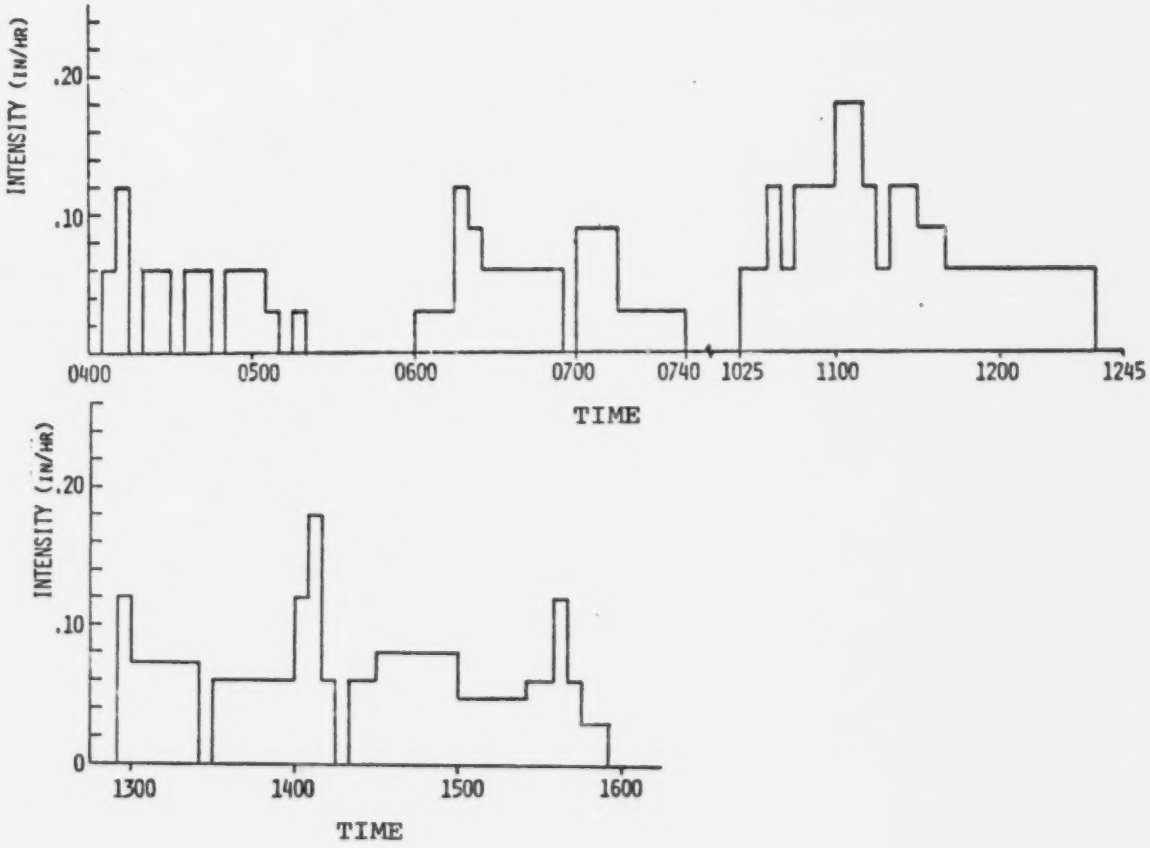
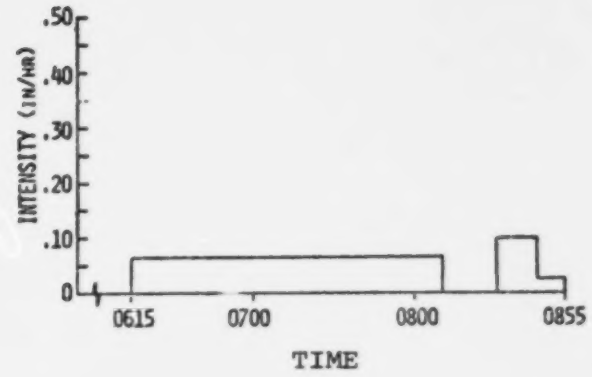


Figure 6-132 RAIN OF MAR. 10, 1971
RIDGE RAINGAGE
HYETOGRAPH



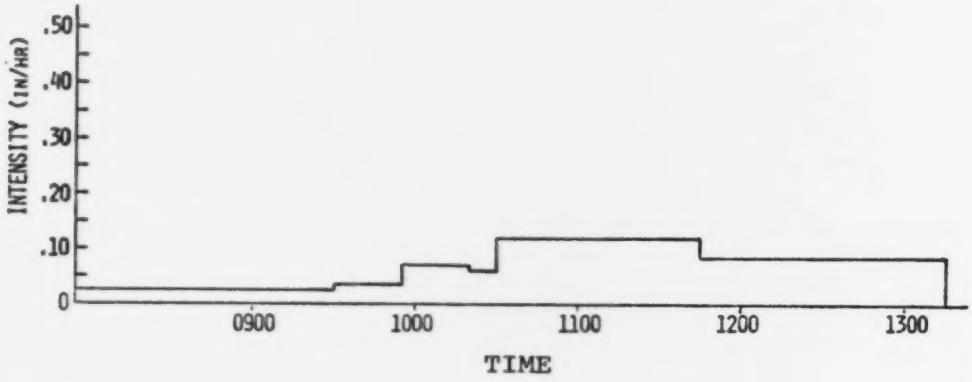


Figure 6-133 RAIN OF MAR. 10, 1971
WOODWARD RAINGAGE
HYETOGRAPH

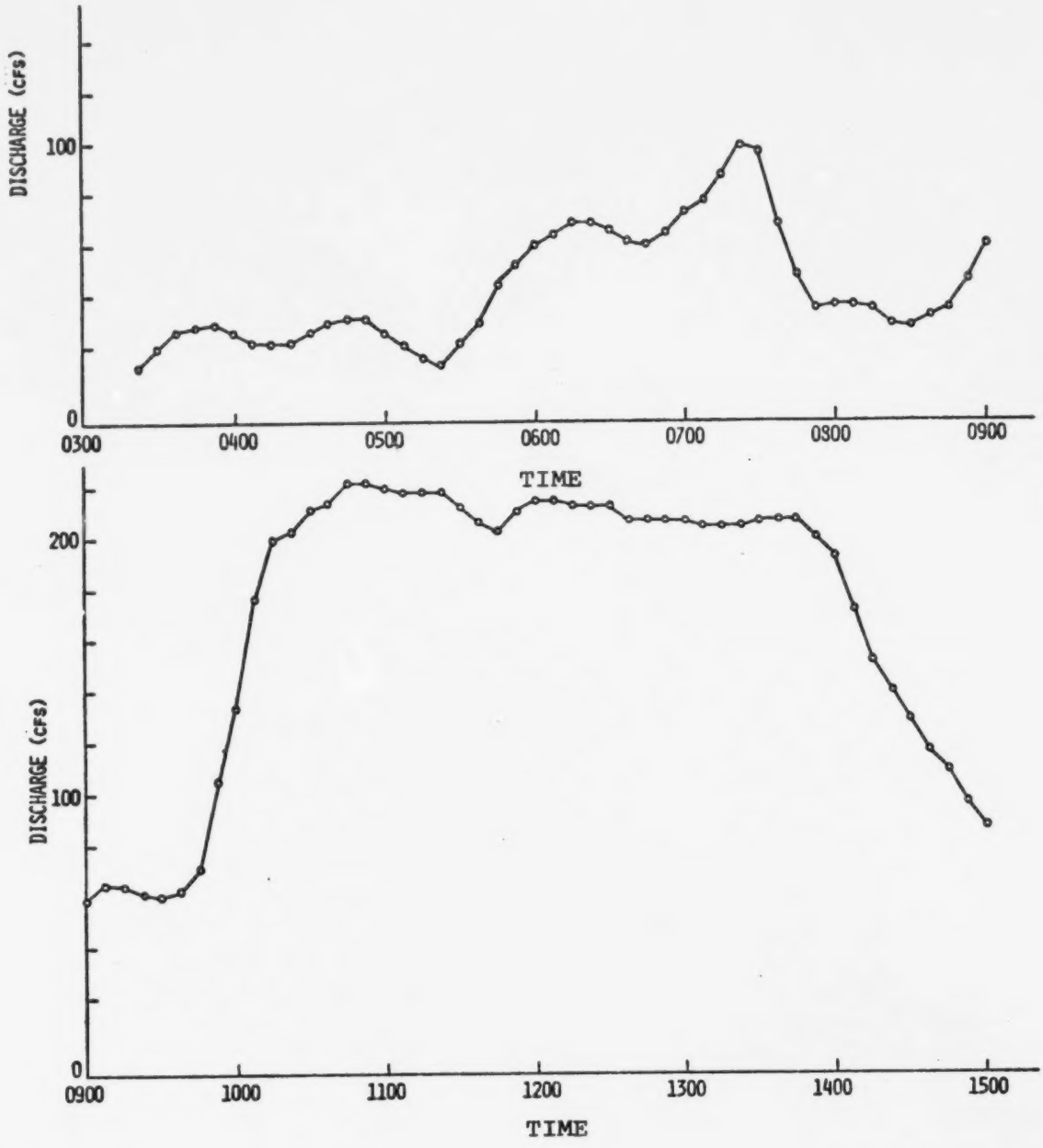


Figure 6-134 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 10, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

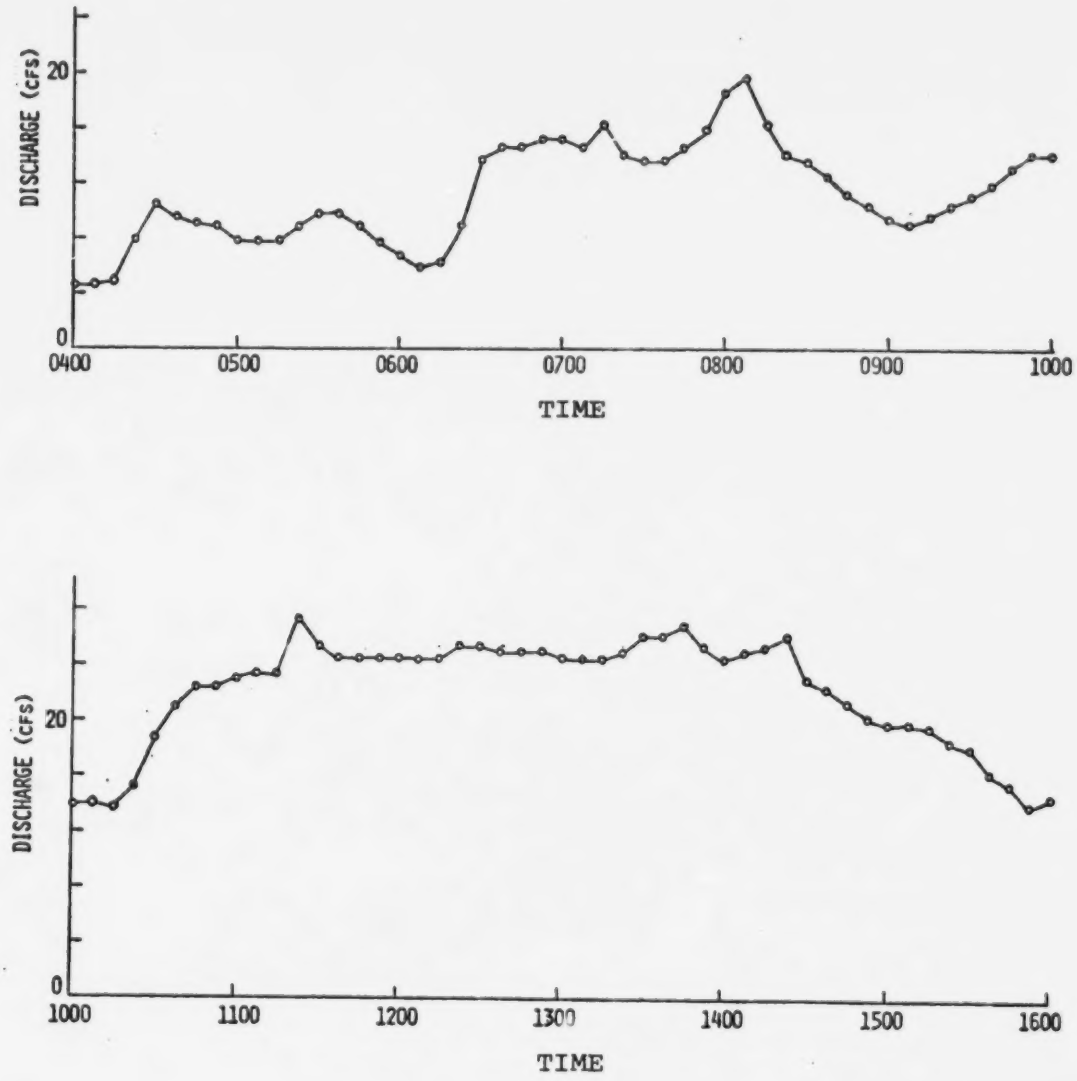


Figure 6-135 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 10, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

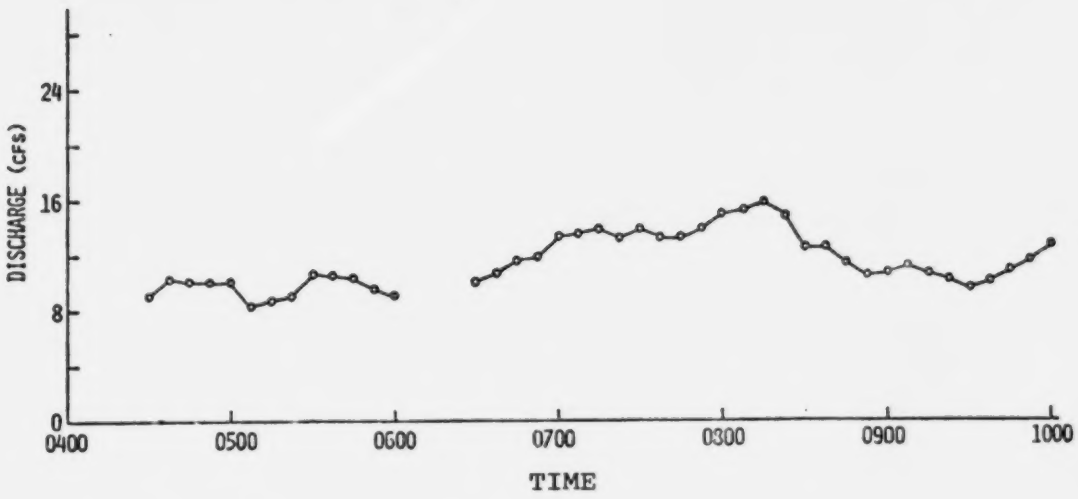


Figure 6-136 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 10, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

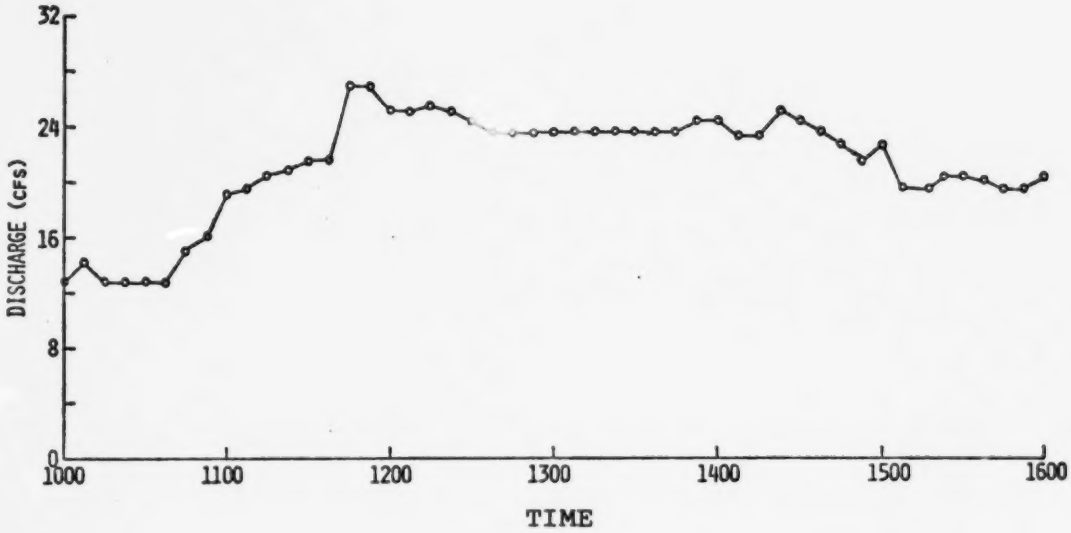


Figure 6-137 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 10, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

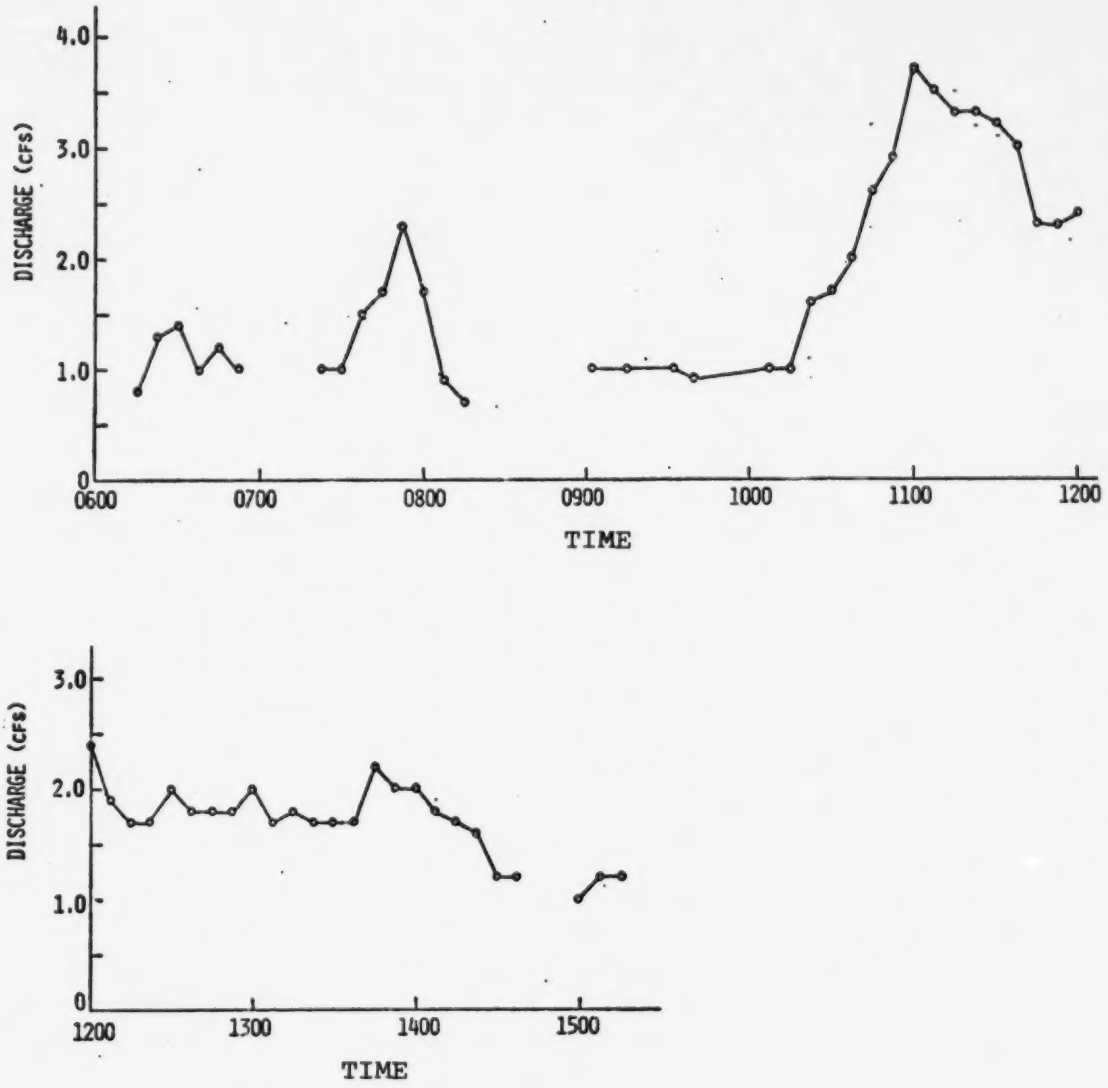


Figure 6-138 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 10, 1971
MONITORING STATION: BANK
54" SEWER

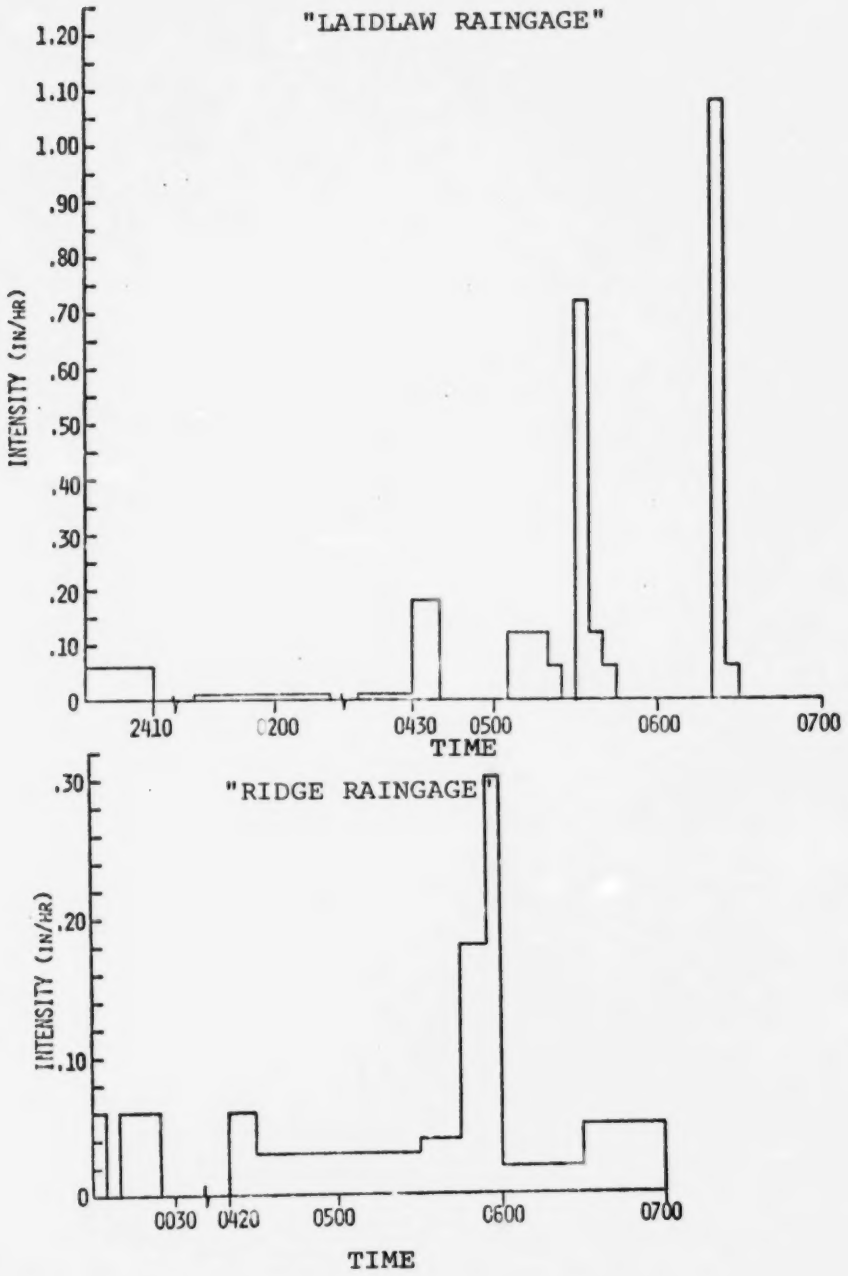


Figure 6-139 RAIN OF MAR. 19, 1971
HYETOGRAPHS

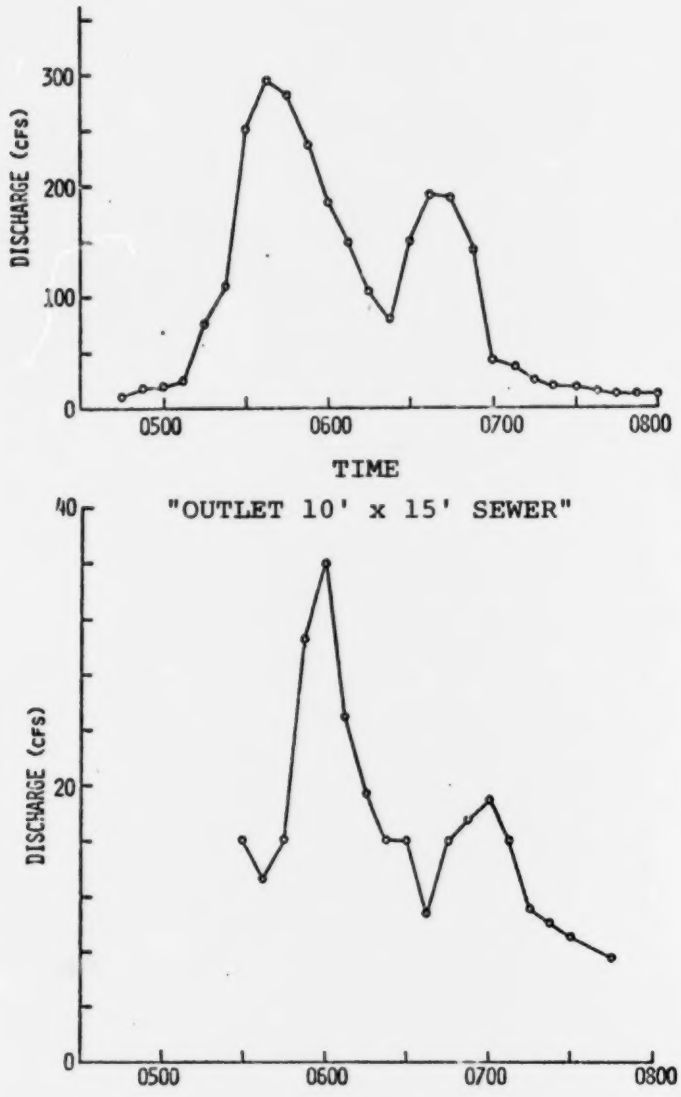


Figure 6-140 RAINFALL QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 19, 1971

Table 6-38 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 19, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Laidlaw Gage	Ridge Gage						
0537:30	.12	.04	8.5	240	102	30	184	348
0545	.06	.18	9	200	100	40	106	360
0552:30	-	.18	11	176	125	30	94	304
0600	-	.30	25.5	-	-	-	-	-
0607:30	-	.02	44	172	95	42	88	276
0615	-	.02	41	140	140	65	75	284
0622:30	1.08	.02	20	176	130	50	78	316
0630	0.06	.05	14	100	90	40	69	240
0637:30	-	.05	11	144	-	-	-	-
0645	-	.05	11	-	100	52	94	260
0652:30	-	.05	19.5	120	108	48	150	258
0700	-	.05	27	152	90	44	140	228
0702:30	-	-	28	110	30	10	138	156
0715	-	-	22.5	100	60	52	94	186
0722:30	-	-	19.5	88	80	30	50	132
0730	-	-	10.5	130	55	27	32	164
0737:30	-	-	8	100	80	15	32	160

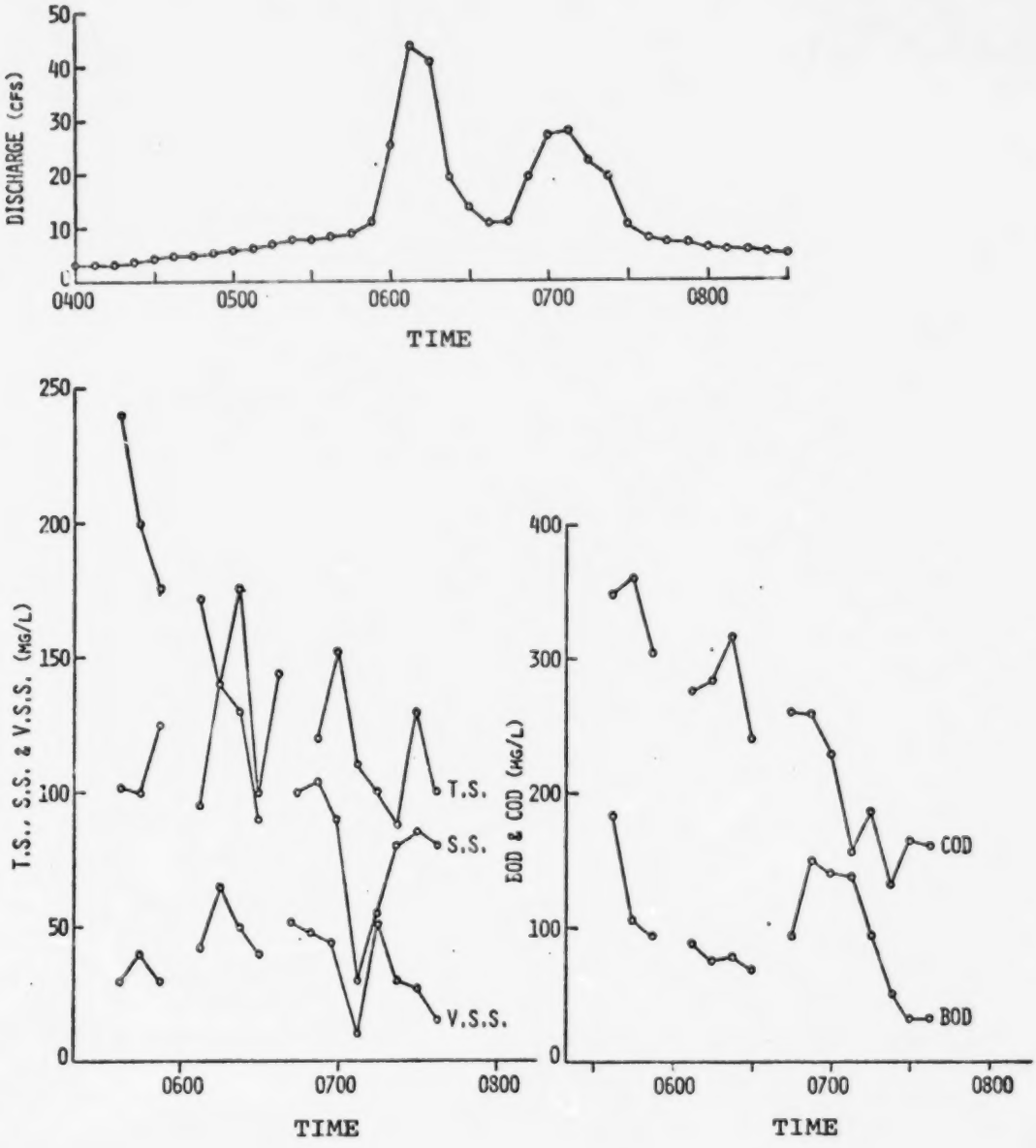


Figure 6-141 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 19, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

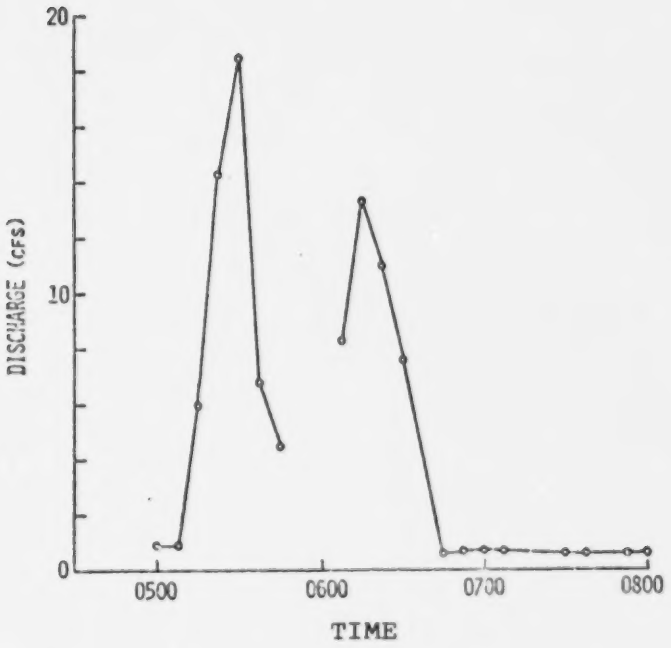


Figure 6-142 RAINFALL QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAR. 19, 1971
MONITORING STATION: BANK
54" SEWER

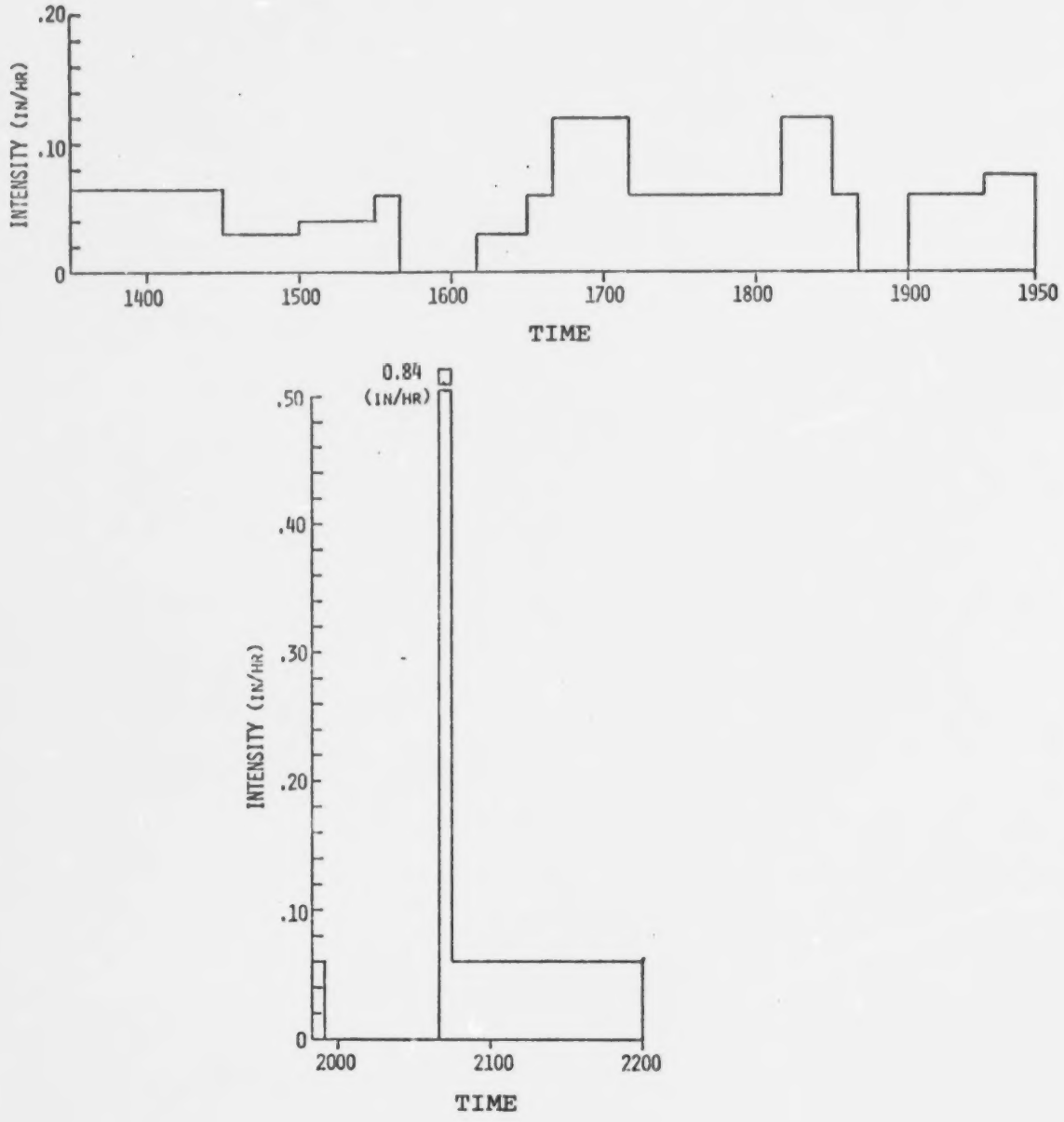


Figure 6-143 RAINFALL OF APR. 1, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

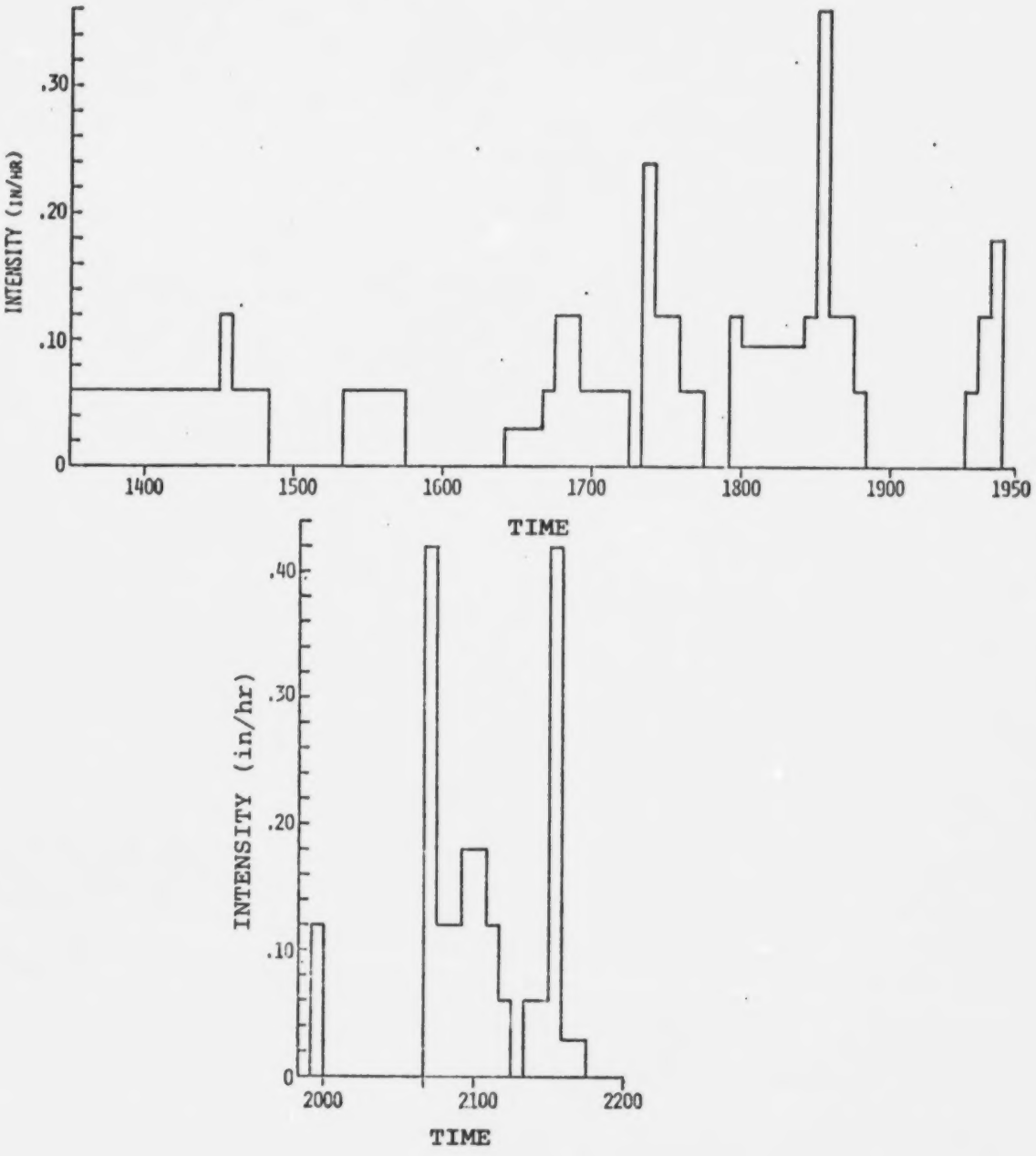


Figure 6-144 RAINFALL OF APR. 1, 1971
RIDGE RAINGAGE
HYETOGRAPH

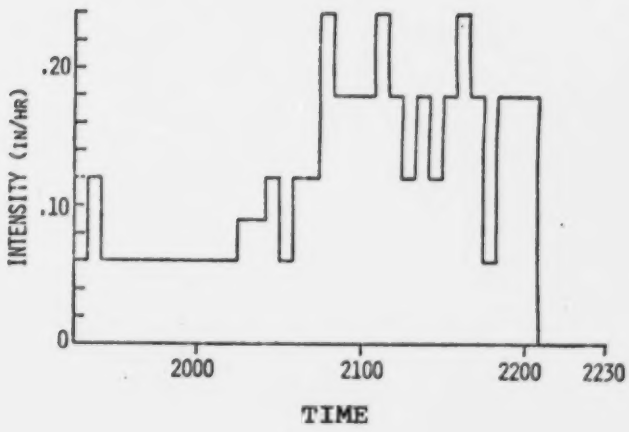
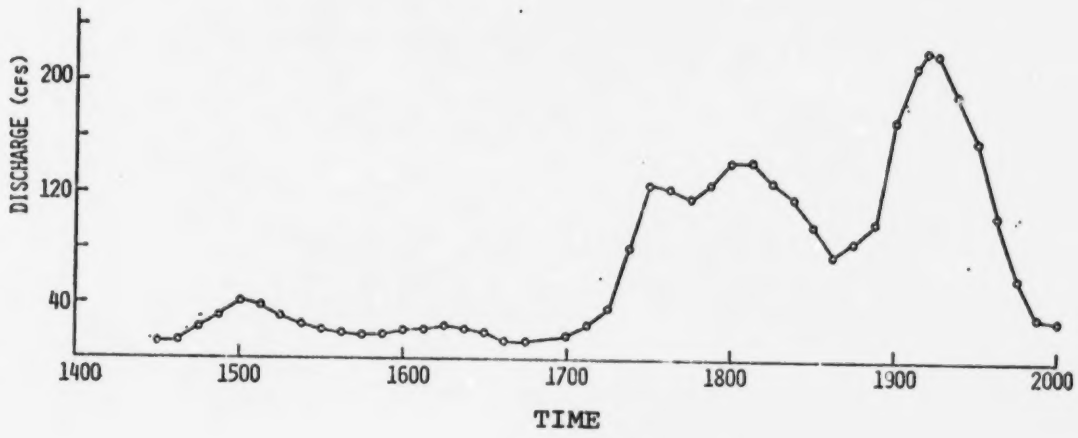


Figure 6-145 RAINFALL OF APR. 1, 1971
WOODWARD RAINGAGE
HYETOGRAPH

Table 6-39 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 1, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	BOD	COD	pH	Cl	Coliform
	Laidlaw Gage	Woodward Gage	Ridge Gage								
1725	.06	-	.24	102	672	425	380	760	7.8	414	2600
1732:30	.06	-	.12	127	478	292	220	1000	-	396	4300
1740	.06	-	.06	121	412	266	230	1040	-	396	2400
1747:30	.06	-	-	120	416	241	300	960	7.8	405	2700
1755	.06	-	-	132	516	313	330	1320	-	386	2300
1802:30	.06	-	.096	144	678	454	340	1960	-	368	6700
1810	.06	-	.096	140	819	618	335	1920	-	577	7200
1817:30	.12	-	.096	125	792	594	840	1960	-	386	7800
1825	.12	-	.096	110	781	556	350	2040	-	396	8100
1855	-	-	.06	114	814	616	380	4160	8.1	405	8600
1902:30	.06	-	.06	191	781	592	390	5550	-	368	8200
1910	.06	-	.06	220	764	515	355	5160	-	386	7500
1917:30	.06	.06	.06	216	682	416	360	3920	-	368	7400
1925	.06	.12	.06	181	616	405	370	3120	8.0	331	7400
1932:30	.075	.06	.06	140	575	316	350	7780	-	322	5400
2107:30	.06	.24	.12	128	541	330	310	1760	-	340	6800
2115	.06	.18	.06	282	512	273	320	1760	7.4	294	6200
2122:30	.06	.18	.06	310	486	266	340	2440	-	-	6600
2130	.06	.12	.06	282	-	310	-	-	-	368	6200
2137:30	.06	.24	.03	236	-	320	340	2840	-	441	6800
2145	.06	.18	.03	233	-	270	350	3080	-	414	-
2152:30	.06	.18	-	241	-	122	350	3250	7.8	-	-
2200	.06	.18	-	236	-						
2207:30	-	-	-	233	-						



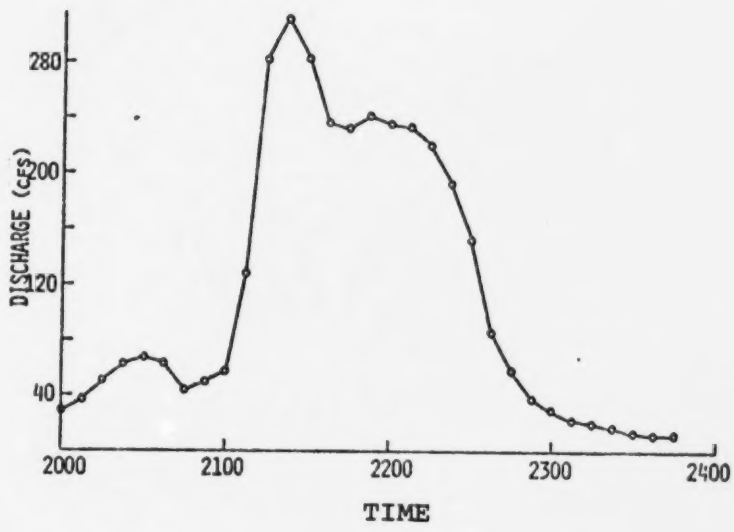


Figure 6-146 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 1, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

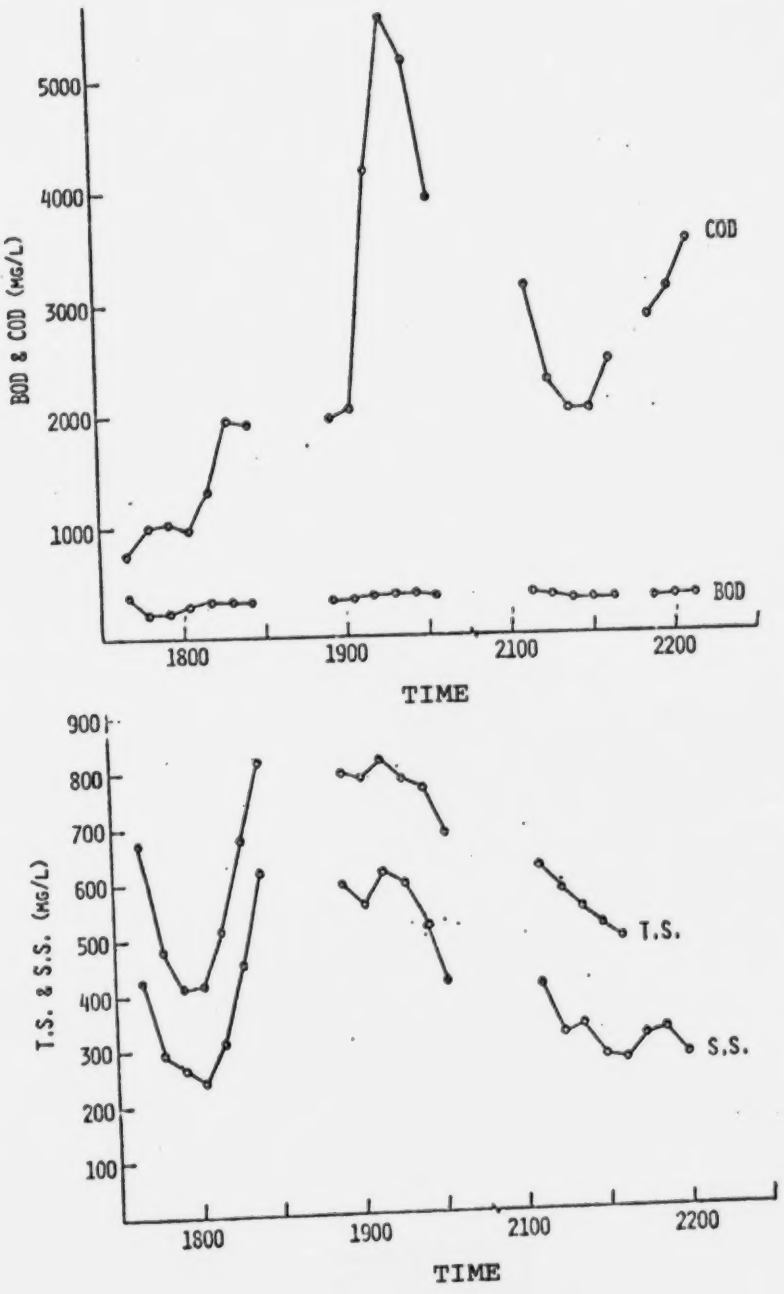


Figure 6-147 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 1, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

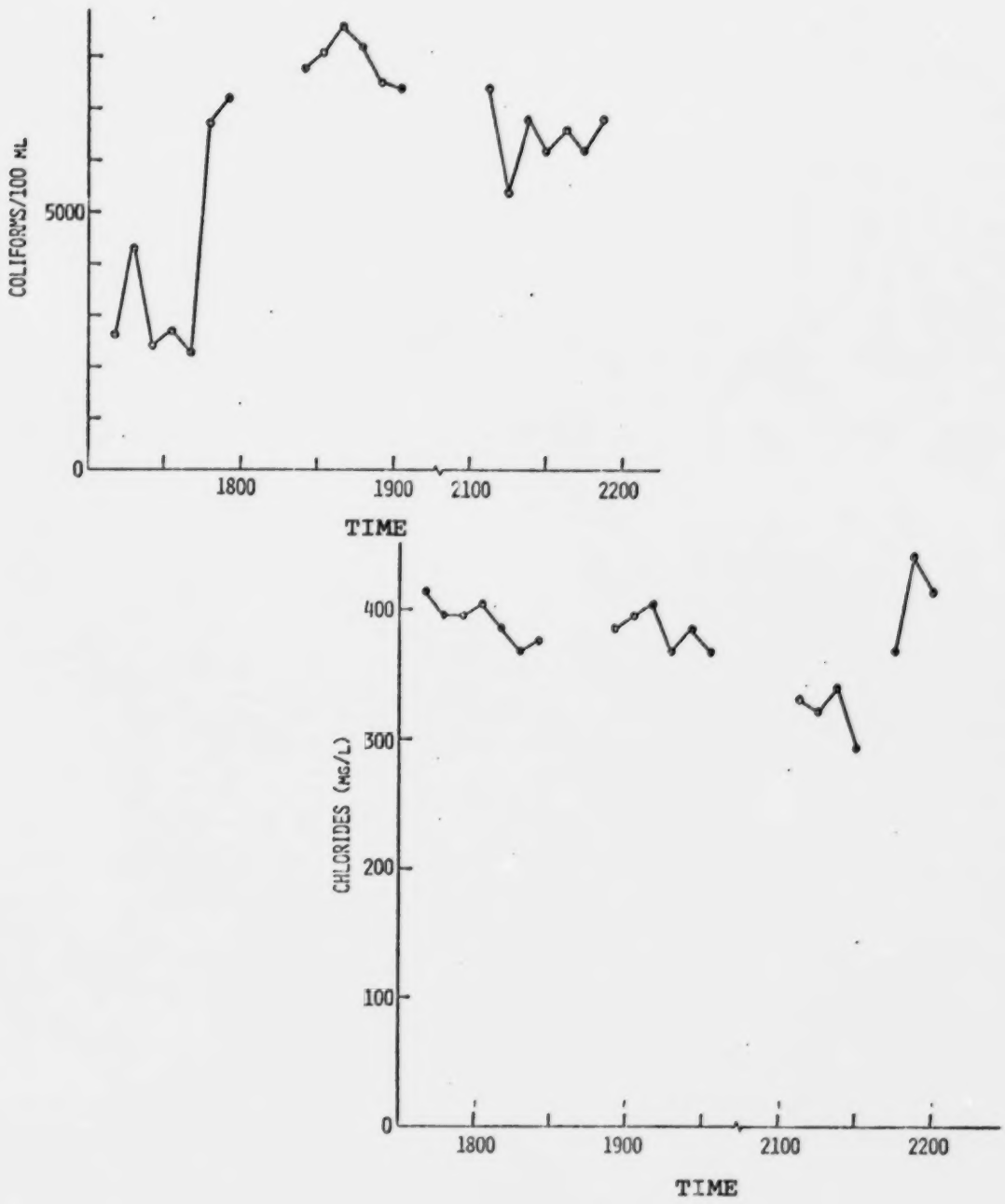


Figure 6-148 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 1, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

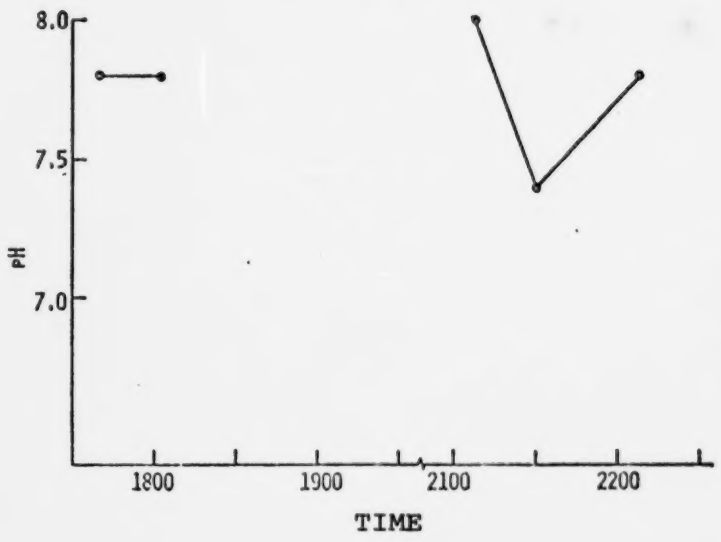
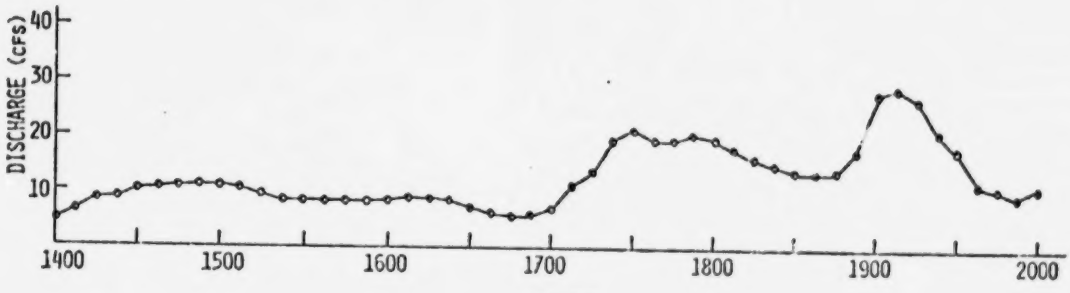
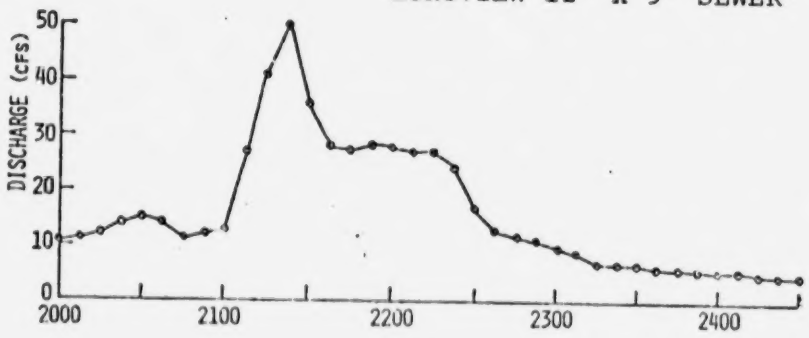


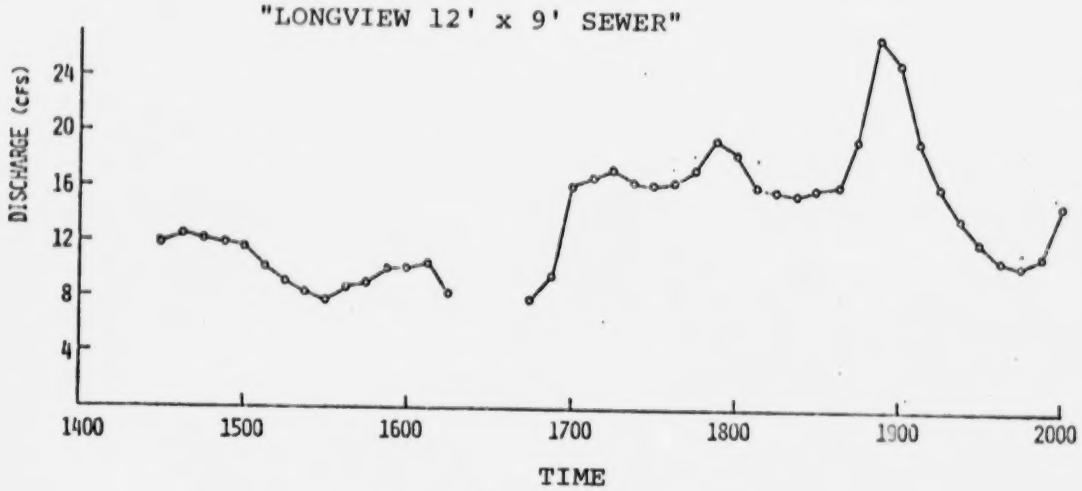
Figure 6-149 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 1, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER



"LONGVIEW 12' x 9' SEWER"

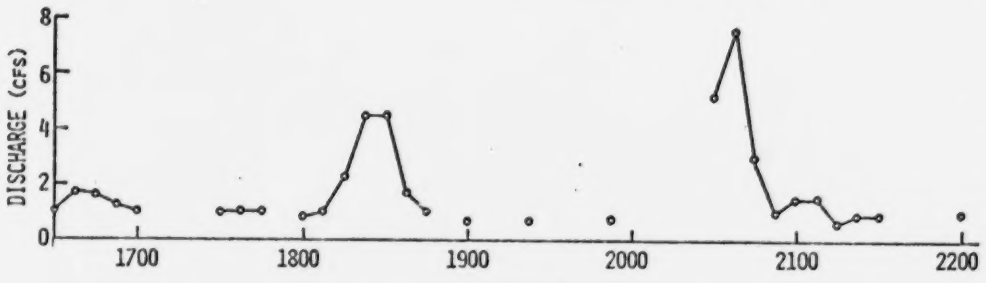


"LONGVIEW 12' x 9' SEWER"

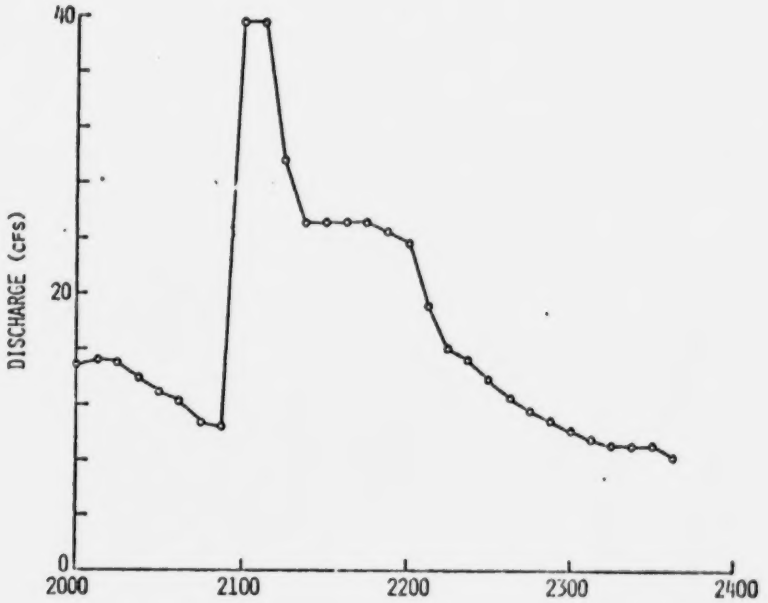


"LONGVIEW 11' x 9' SEWER"

Figure 6-150 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APRIL 1, 1971



"BANK 54" SEWER"



"BANK 78" SEWER"

Figure 6-151 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APRIL 1, 1971

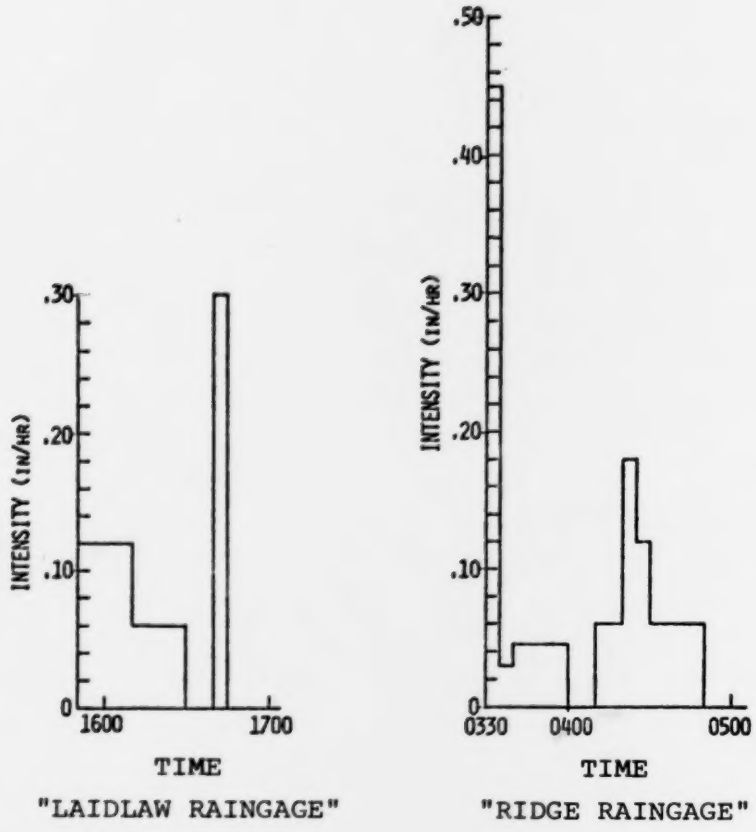


Figure 6-152 RAIN OF APR. 6, 1971
HYETOGRAPHS

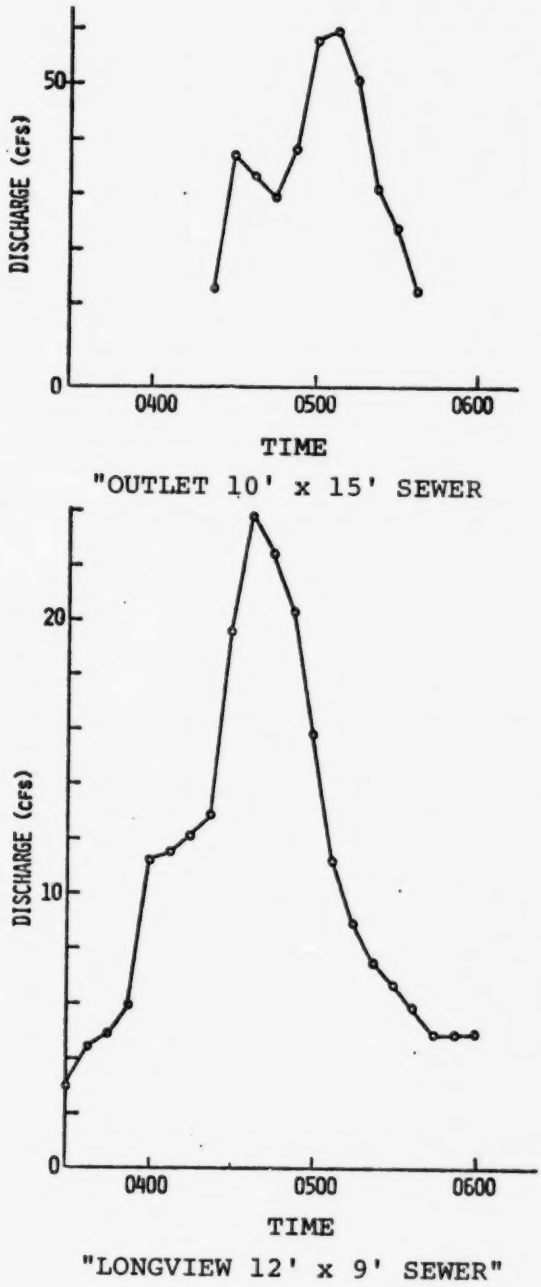


Figure 6-153 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 6, 1971

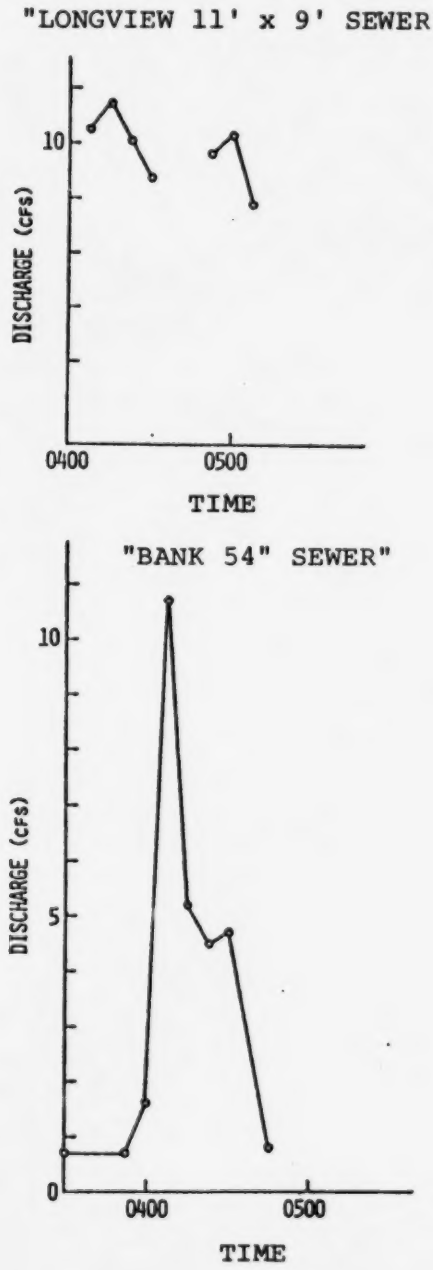
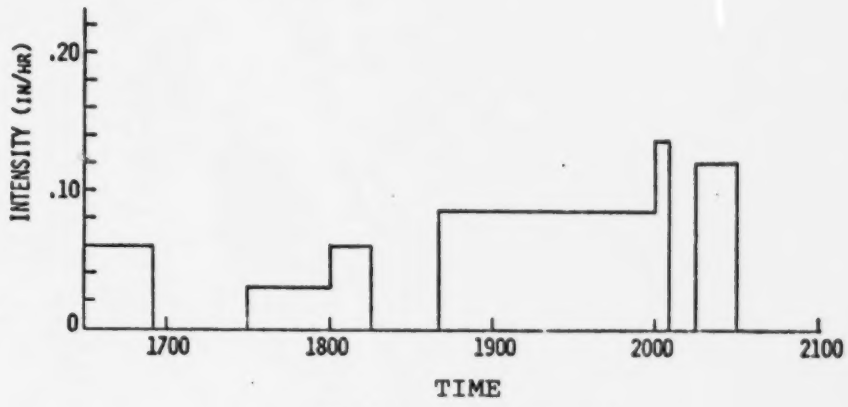
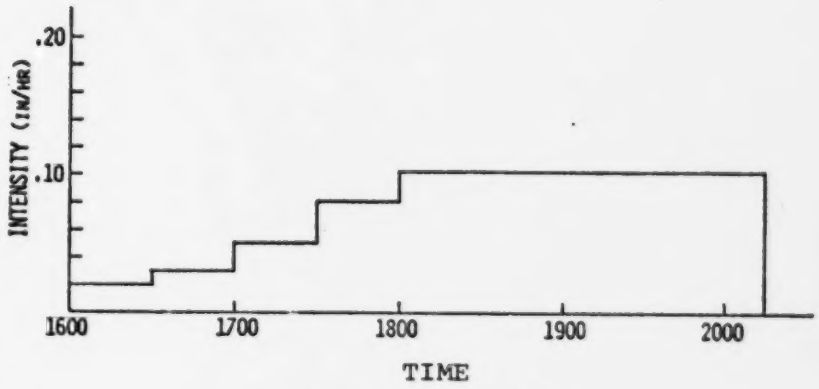


Figure 6-154 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 6, 1971



"LAIDLAW RAINGAGE"



"RIDGE RAINGAGE"

Figure 6-155 RAINFALL OF APR. 13, 1971
HYETOGRAPHS

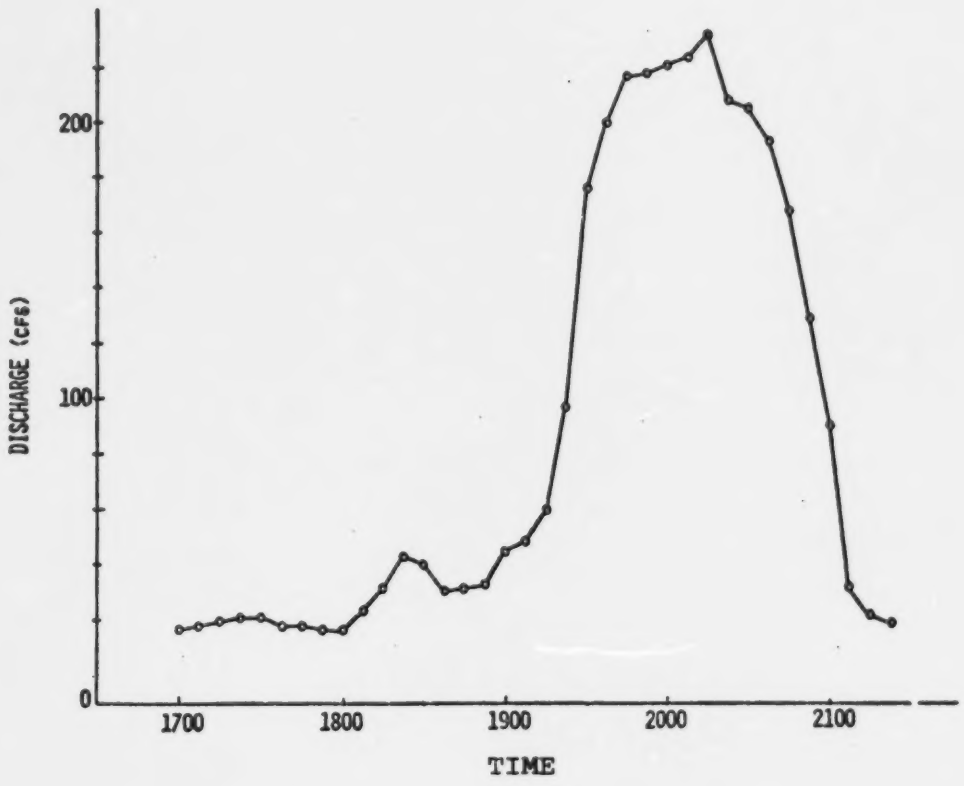


Figure 6-156 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 13, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

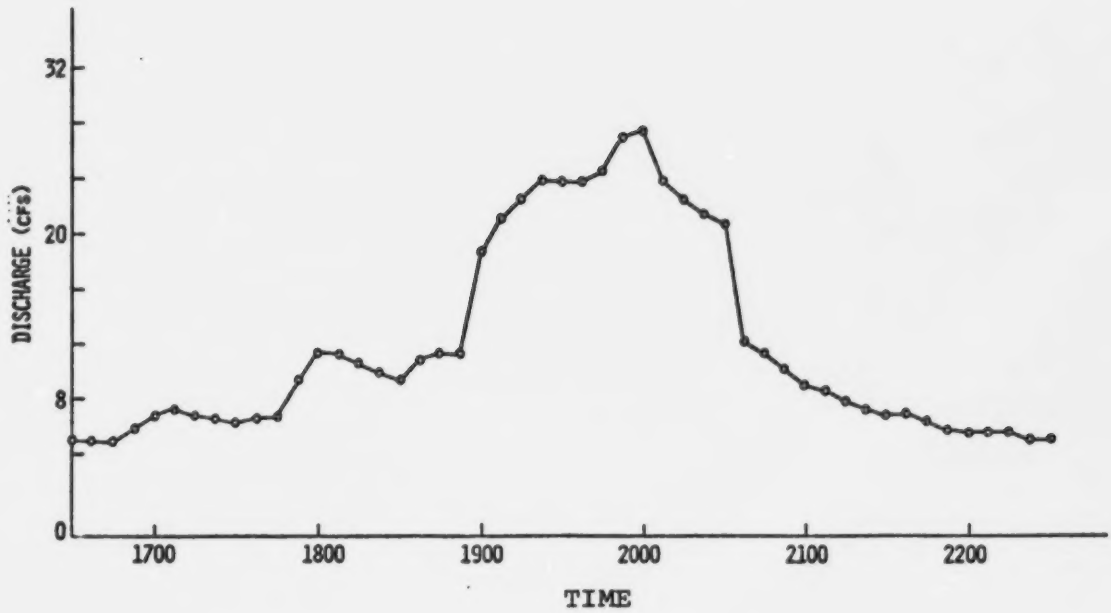


Figure 6-157 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 13, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

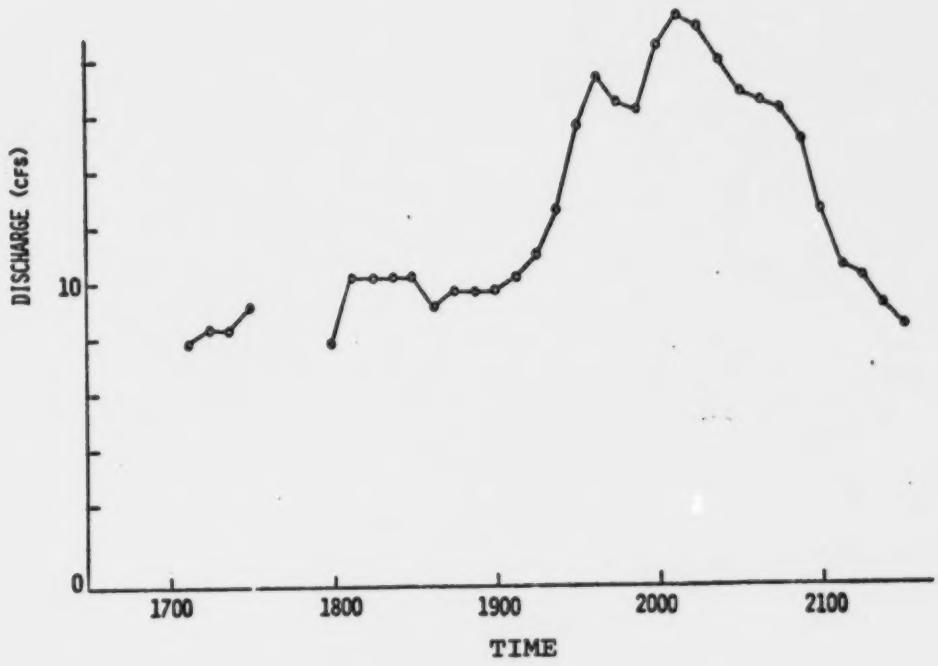
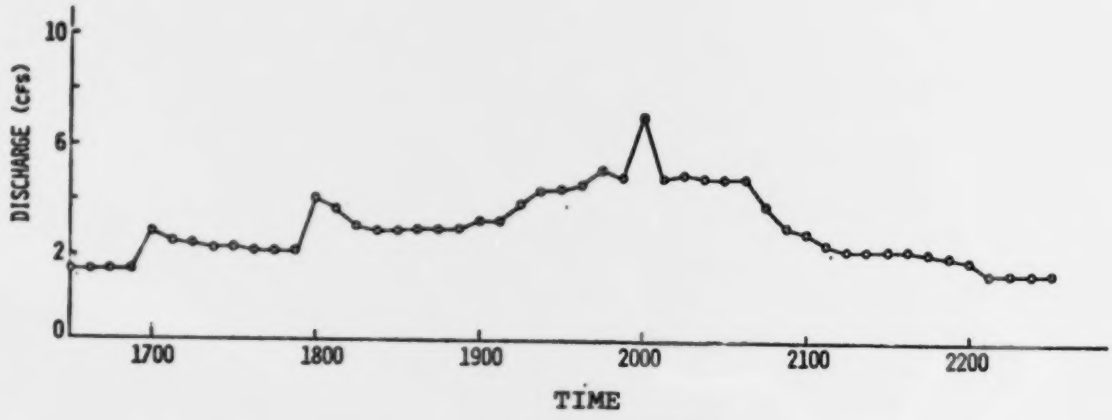
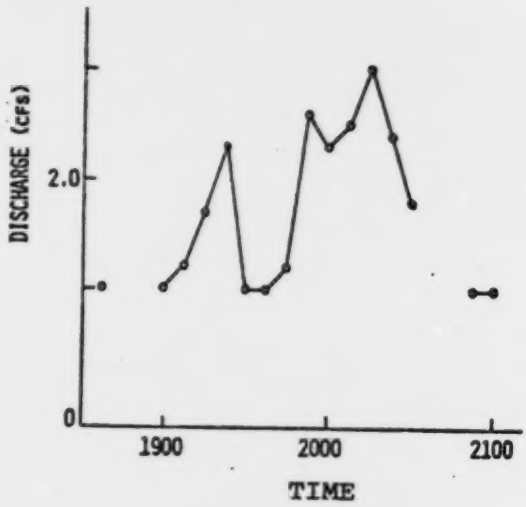


Figure 6-158 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 13, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER



"BANK 78" SEWER"



"BANK 54" SEWER"

Figure 6-159 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 13, 1971

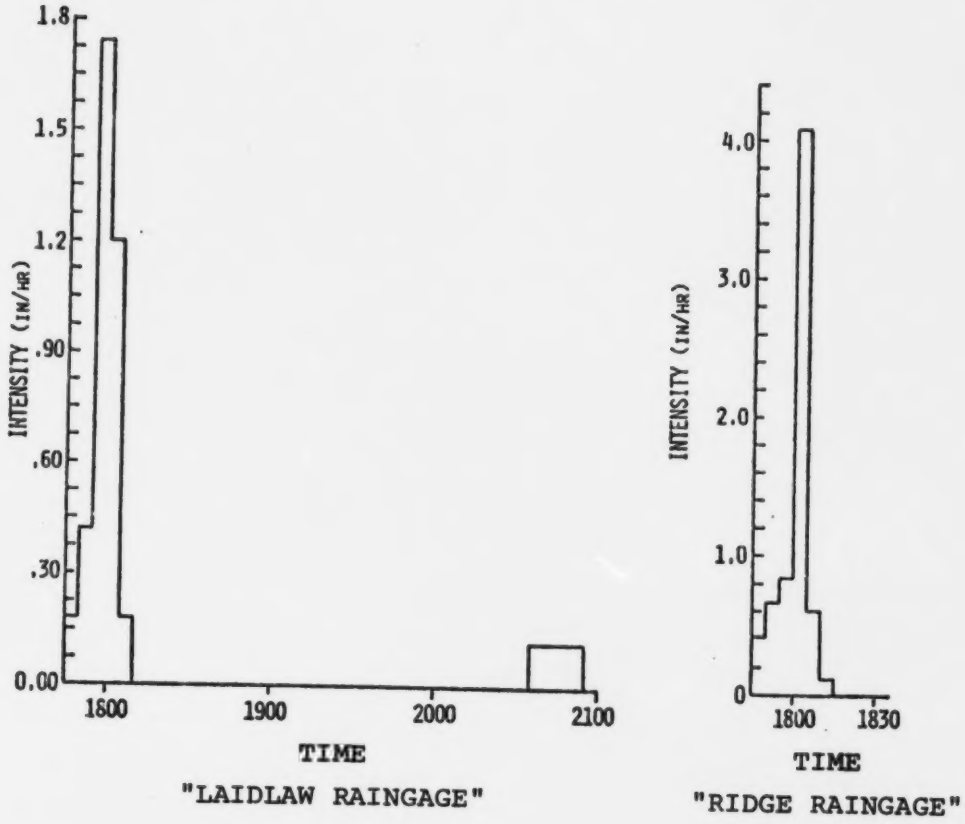
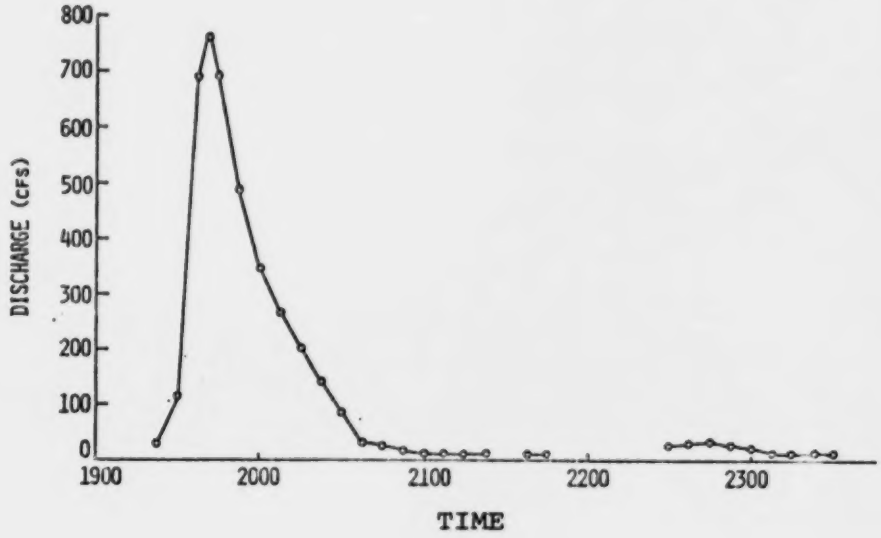


Figure 6-160 RAINFALL OF APR. 27, 1971
HYETOGRAPHS

Table 6-40 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 27, 1971 MONITORING STATION: Outlet

Time	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Coliform
1930	238	162	400	928	4800
1937:30	351		240	512	7200
1945	349	171	450	920	1600



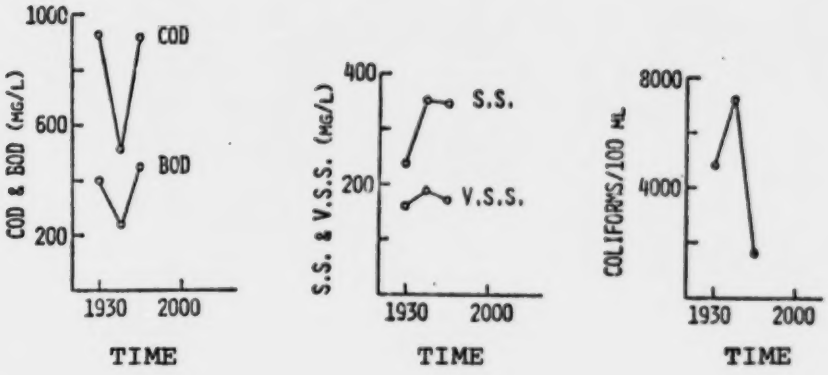


Figure 6-161 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 27, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

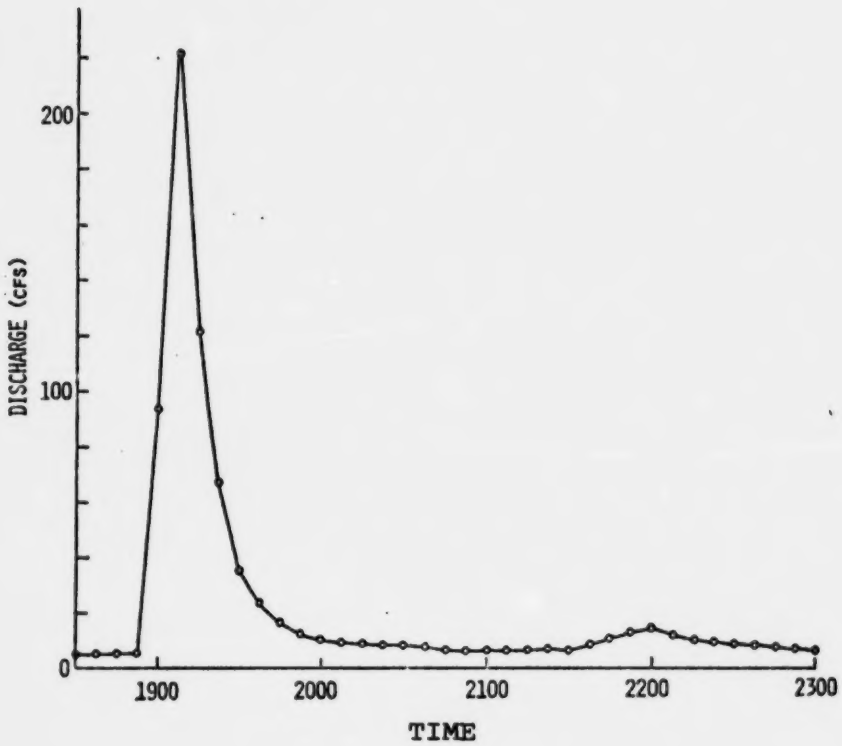


Figure 6-162 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 27, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

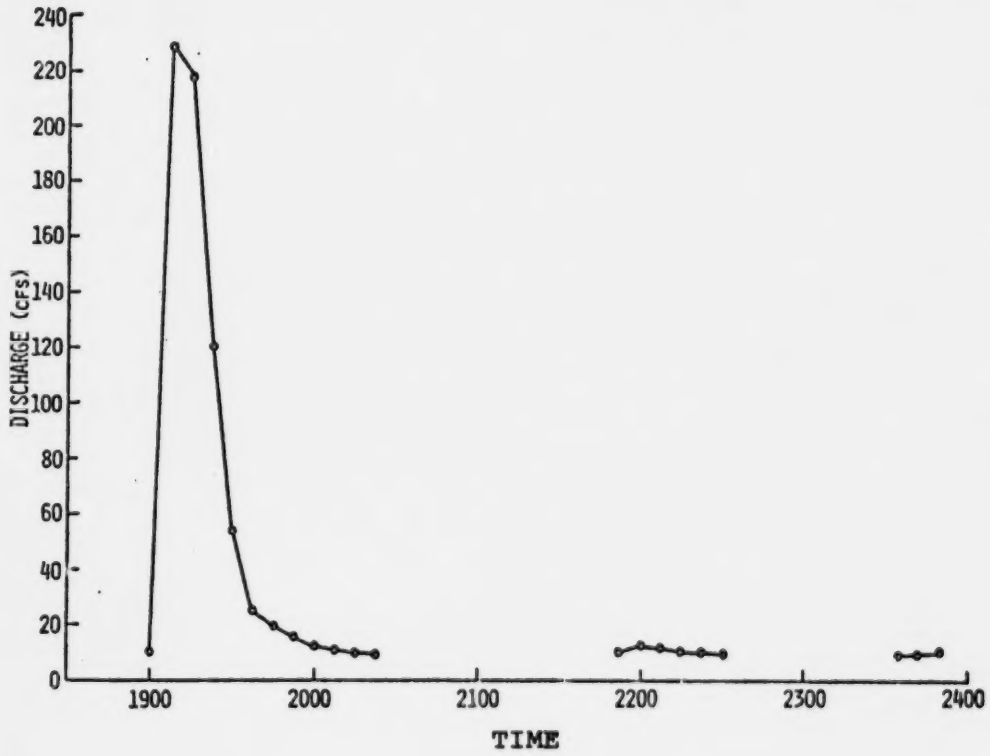
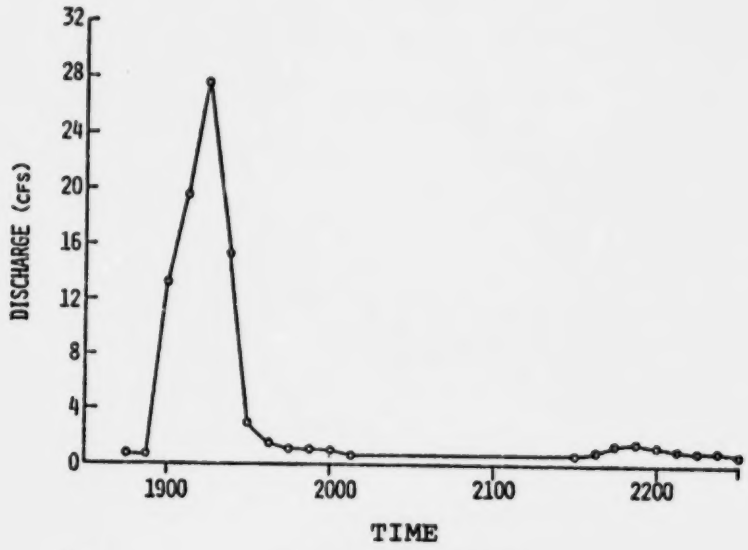
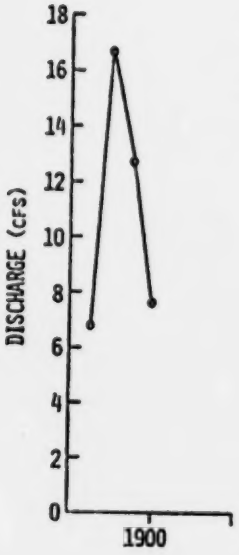


Figure 6-163 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 27, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER



"BANK 78" SEWER"



"BANK 54" SEWER"

Figure 6-164 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: APR. 27, 1971

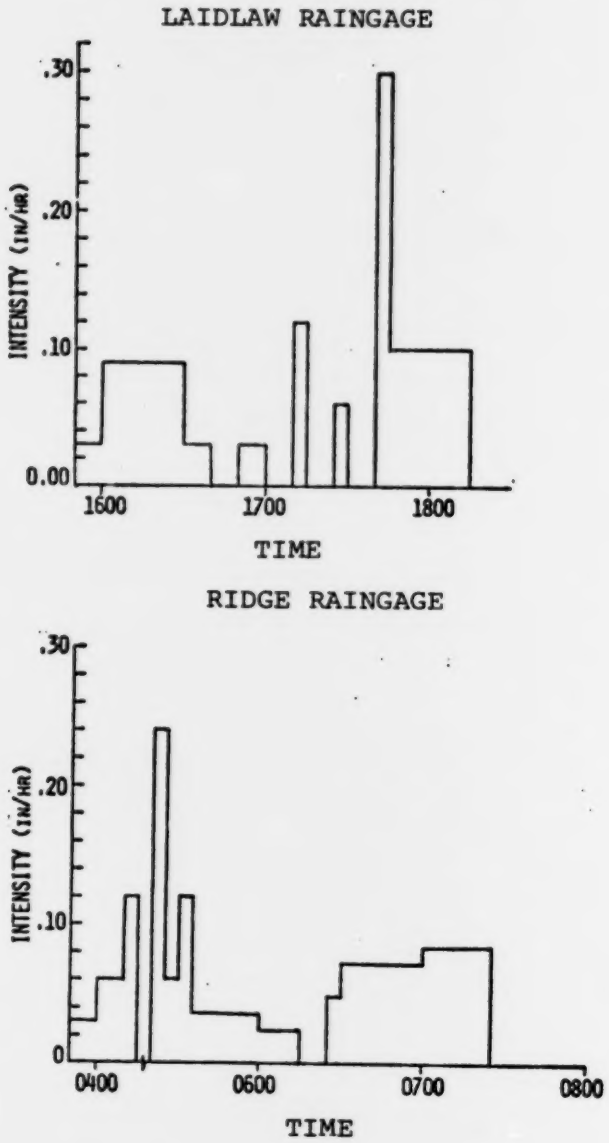


Figure 6-165, RAIN OF MAY 2, 1971
HYETOGRAPHS

Table 6-41 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 2, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)	Discharge cfs	BOD	COD	Coliform
	Ridge Gage				
0557:30	.072	66	180	352	8100
0605	.084	83	150	336	9200
0612:30	.084	92	208	624	9700
0620	.084	87	180	496	9600
0627:30	.084	66	158	368	4800

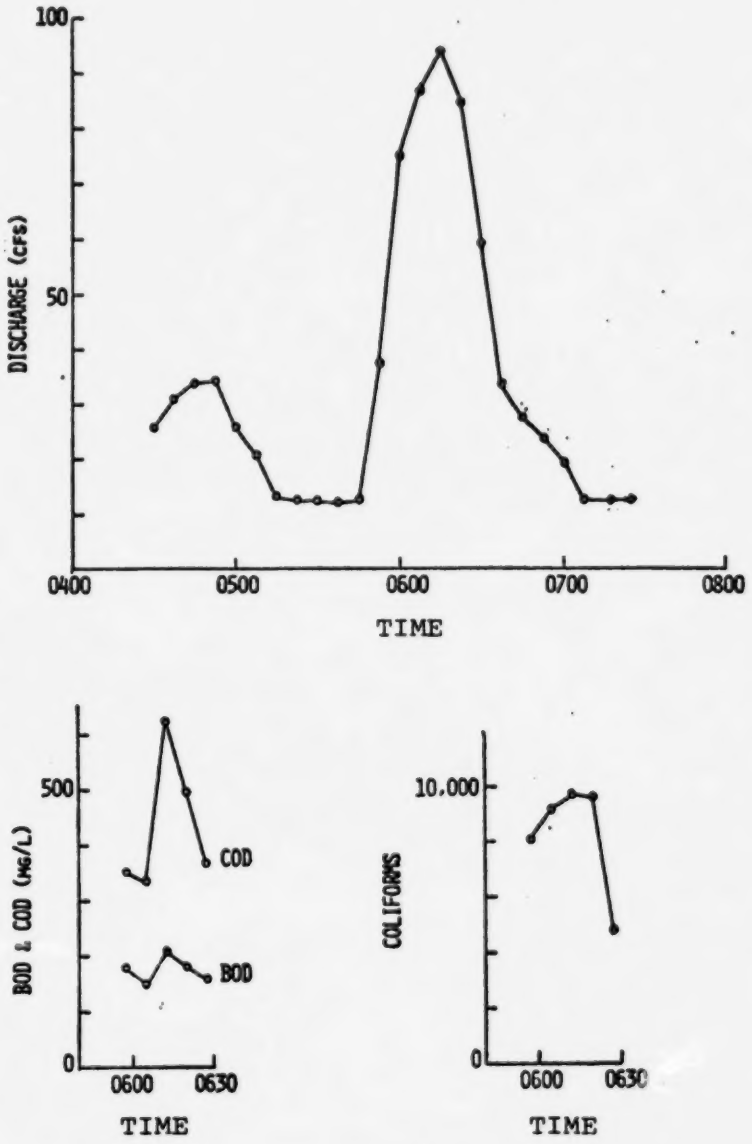


Figure 6-166 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 2, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

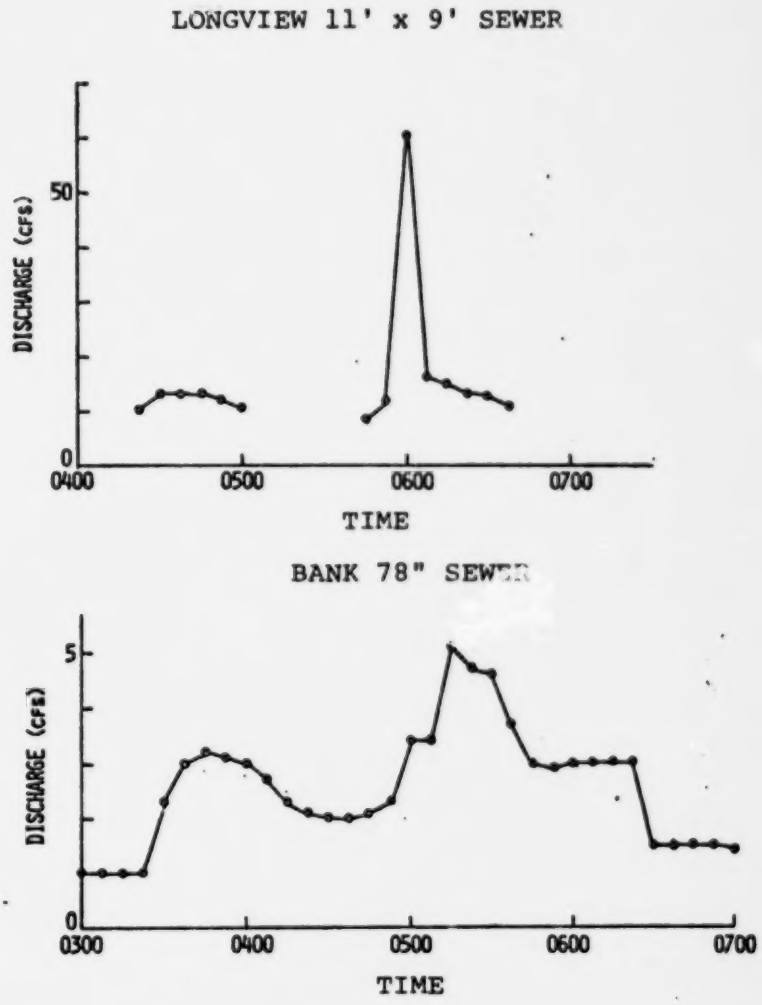


Figure 6-167 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 2, 1971

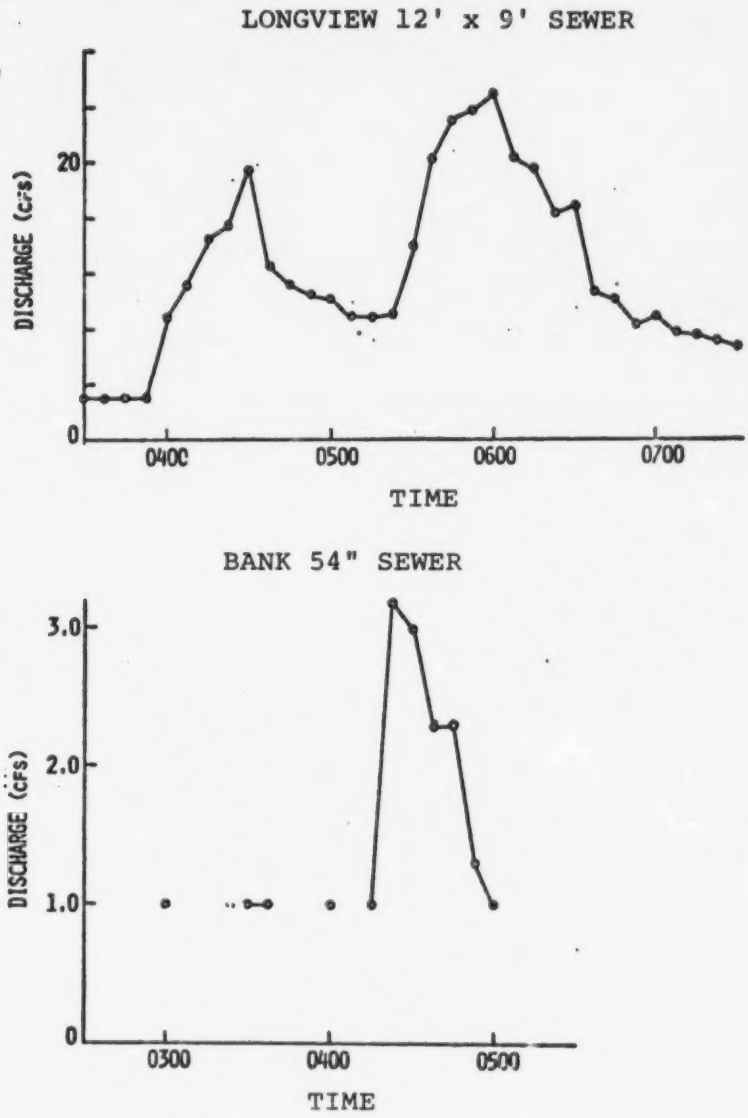


Figure 6-168 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 2, 1971

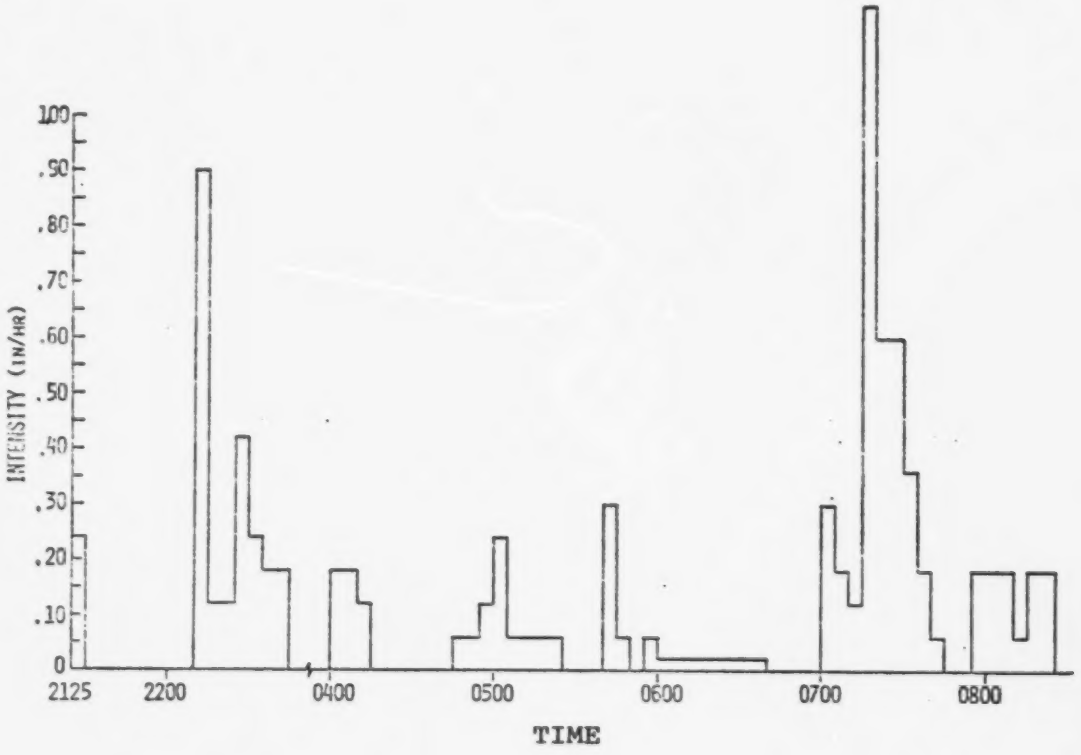


Figure 6-169 RAIN OF MAY 5 & 6, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

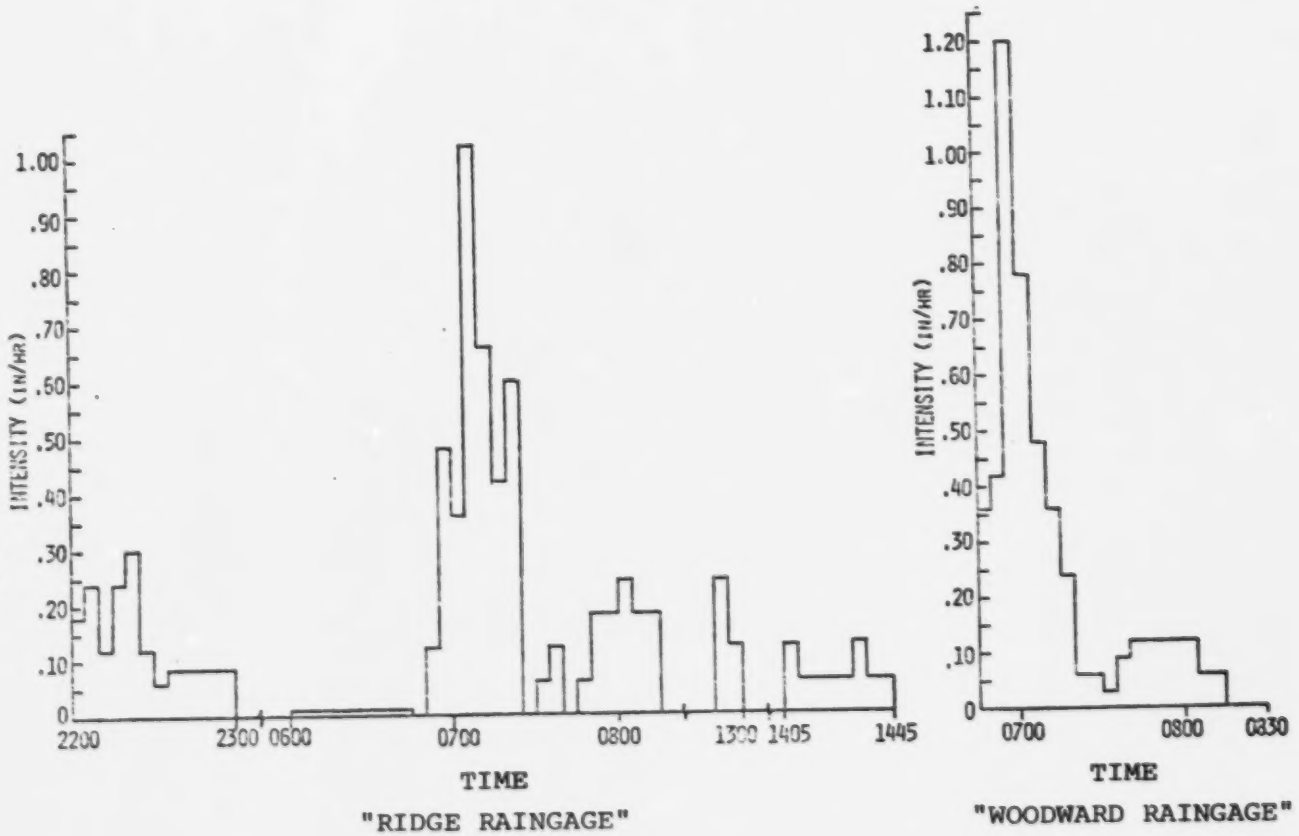
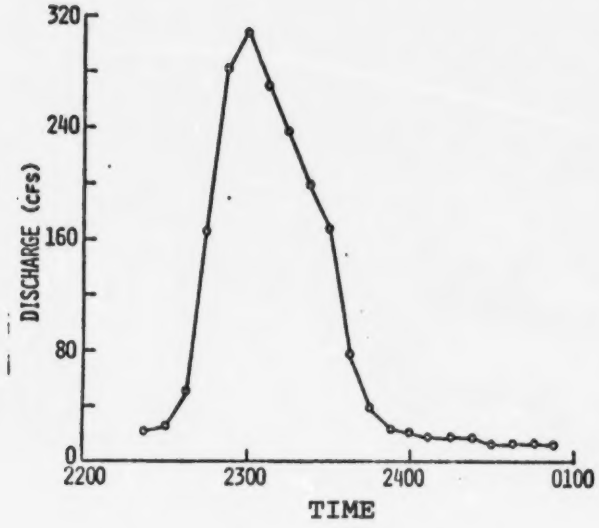


Figure 6-170 RAIN OF MAY 5 & 6, 1971
HYETOGRAPHS

Table 6-42 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 6, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	Coliform
	Laidlaw Gage	Woodward Gage	Ridge Gage							
2037:30	-	-	-	-	571	386	210	-	864	-
2045	-	-	-	-	940	730	428	220	1408	7600
2052:30	-	-	-	-	872	604	887	301	1216	4200
2100	-	-	-	-	560	350	199	285	672	7800
2107:30	-	-	-	-	189	62	38	176	848	8400
2115	-	-	-	-	2671	1452	1120	180	896	9200
2122:30	-	-	-	-	1140	528	410	128	2192	9900
2130	-	-	-	-	640	280	133	330	880	9000
2137:30	-	-	-	-	992	776	513	335	3232	9100
0715	1.20	.24	.42	65	876	656	475	310	1136	8400
0722:30	.60	.06	.60	280	411	132	102	228	528	8000
0730	.36	.03	.06	675	399	190	116	153	416	7600
0737:30	.18	.09	.12	740	4189	2138	1842	91	432	7100
0745	-	.12	.06	620	5100	3214	2657	125	416	7000
0752:30	-	.12	.18	510	4860	2926	2481	153	334	7400
0800	.18	.12	.24	435	7241	3460	2762	97	256	5600
0807:30	.18	.06	.18	325	4480	4414	3875	84	464	5500
0815	.18	-	-	285	2871	1918	1612	114	512	5400
0822:30	.18	-	-	275	1160	550	413	184	514	3900
0830	-	-	-	280	742	392	289	320	544	3800
0837:30	-	-	-	275	749	-	161	178	432	4300
0845	-	-	-	255	542	270	162	156	912	4400
0852:30	-	-	-	230	610	300	219	131	736	3700
0900	-	-	-	190	-	-	-	119	416	3200



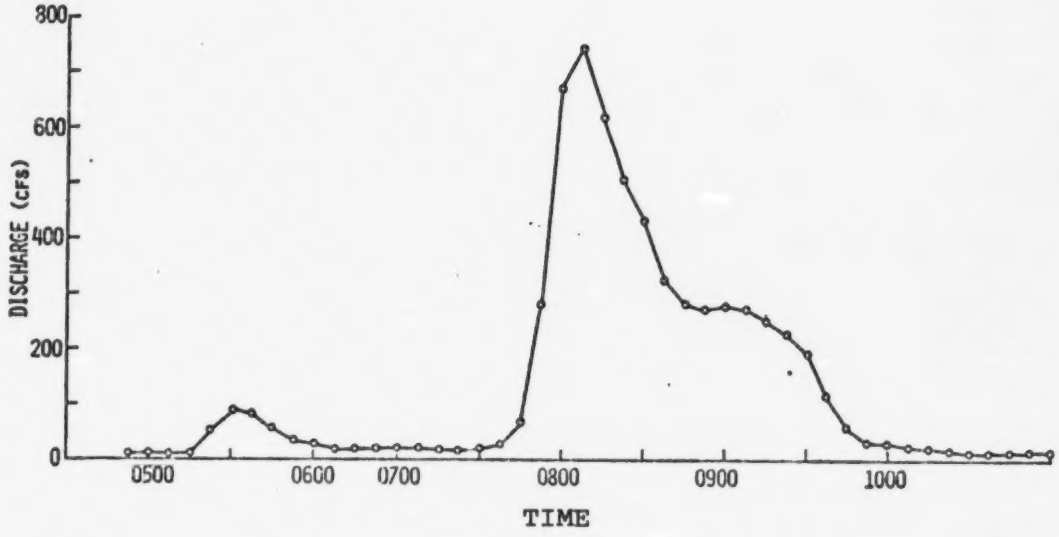


Figure 6-171 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 5 & 6, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

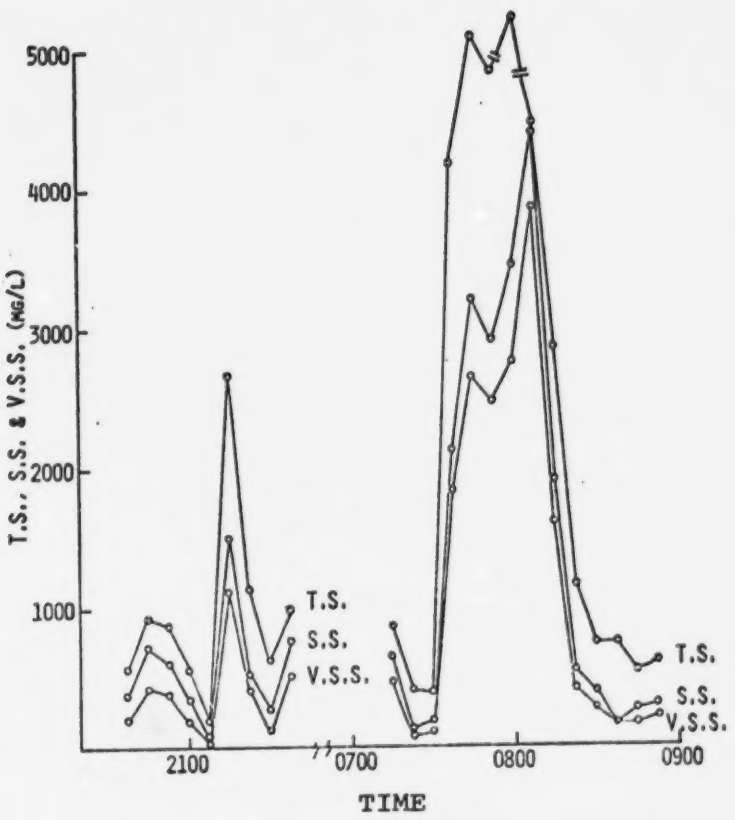


Figure 6-172 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 5 & 6, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

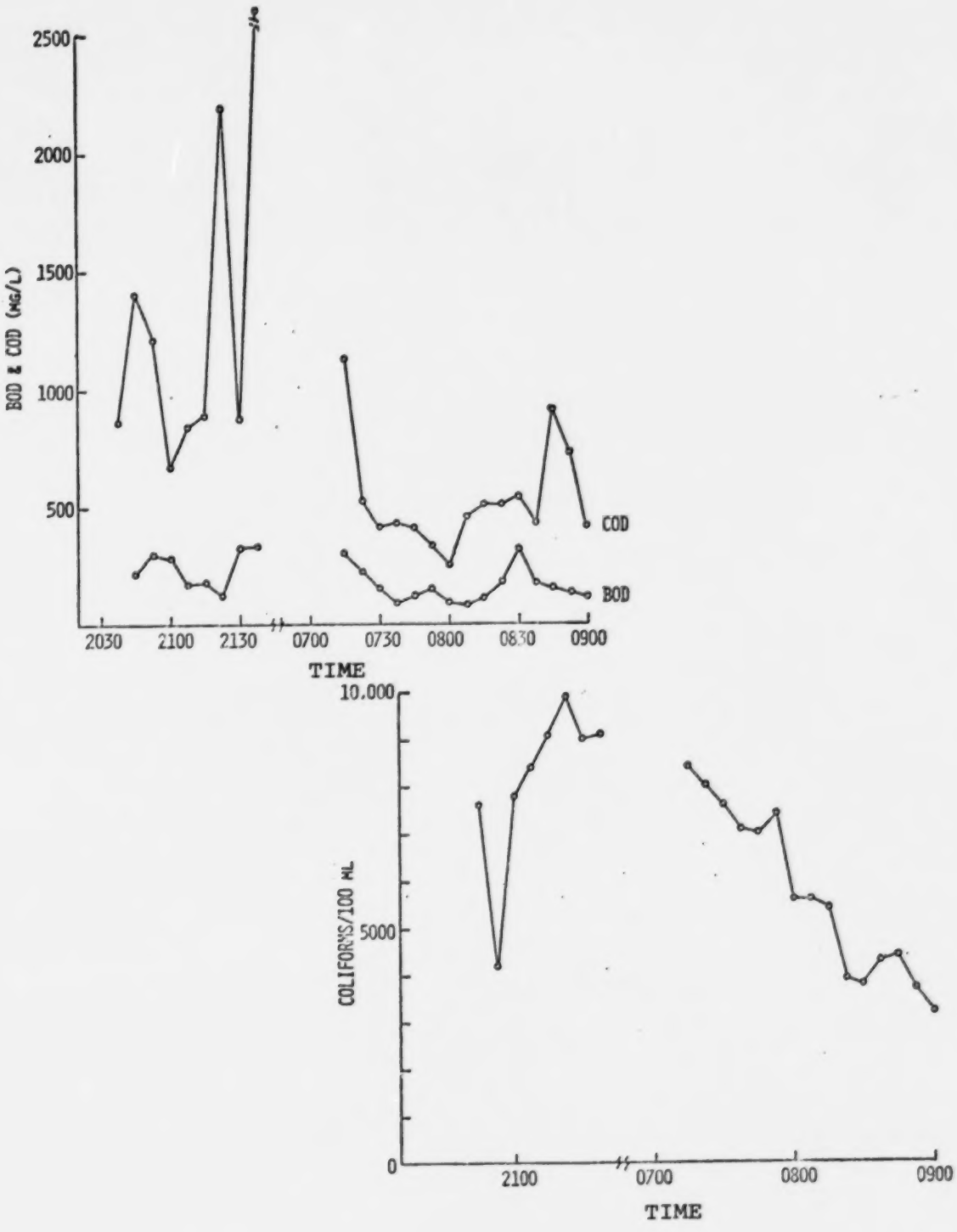


Figure 6-173 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 5 & 6, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

Table 6-43 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 5 & 6, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage						
2152:30	-	-	-	7.5	-	-	-	-	-
2200	-	-	.18	23	-	-	-	-	-
2207:30	-	-	.24	36.5	472	375	343	240	772
2215	.12	-	.24	52	586	218	139	230	224
2222:30	.12	-	.30	45	-	-	-	179	376
2230	.24	-	.06	37	-	-	-	-	-
2237:30	.18	-	.08	22.5	-	-	-	-	-
2245	-	-	.08	19.5	-	-	-	-	-
2252:30	-	-	.08	15	-	-	-	149	404
2300	-	-	-	11.5	-	-	-	140	440
2307:30	-	-	-	10.5	-	-	-	-	-
0440	-	-	-	22	228	137	82	141	324
0447:30	.06	-	-	24	-	-	-	-	-
0455	.12	-	-	24	-	-	-	-	-
0502:30	.12	-	-	20	-	-	-	-	-
0510	.12	-	-	12	375	148	115	141	220
0517:30	.12	-	-	11	400	368	217	128	140
0630	.02	-	.01	10	512	217	163	147	244
0637:30	.02	-	.01	11	386	212	178	153	280
0645	-	.36	-	31	599	480	325	175	364
0652:30	-	.42	.12	72	489	246	192	152	432
0700	.30	.78	.36	195	352	131	112	111	136
0707:30	.26	.48	1.02	158	307	103	70	177	124
0715	1.20	.24	.42	100	341	110	23	200	128

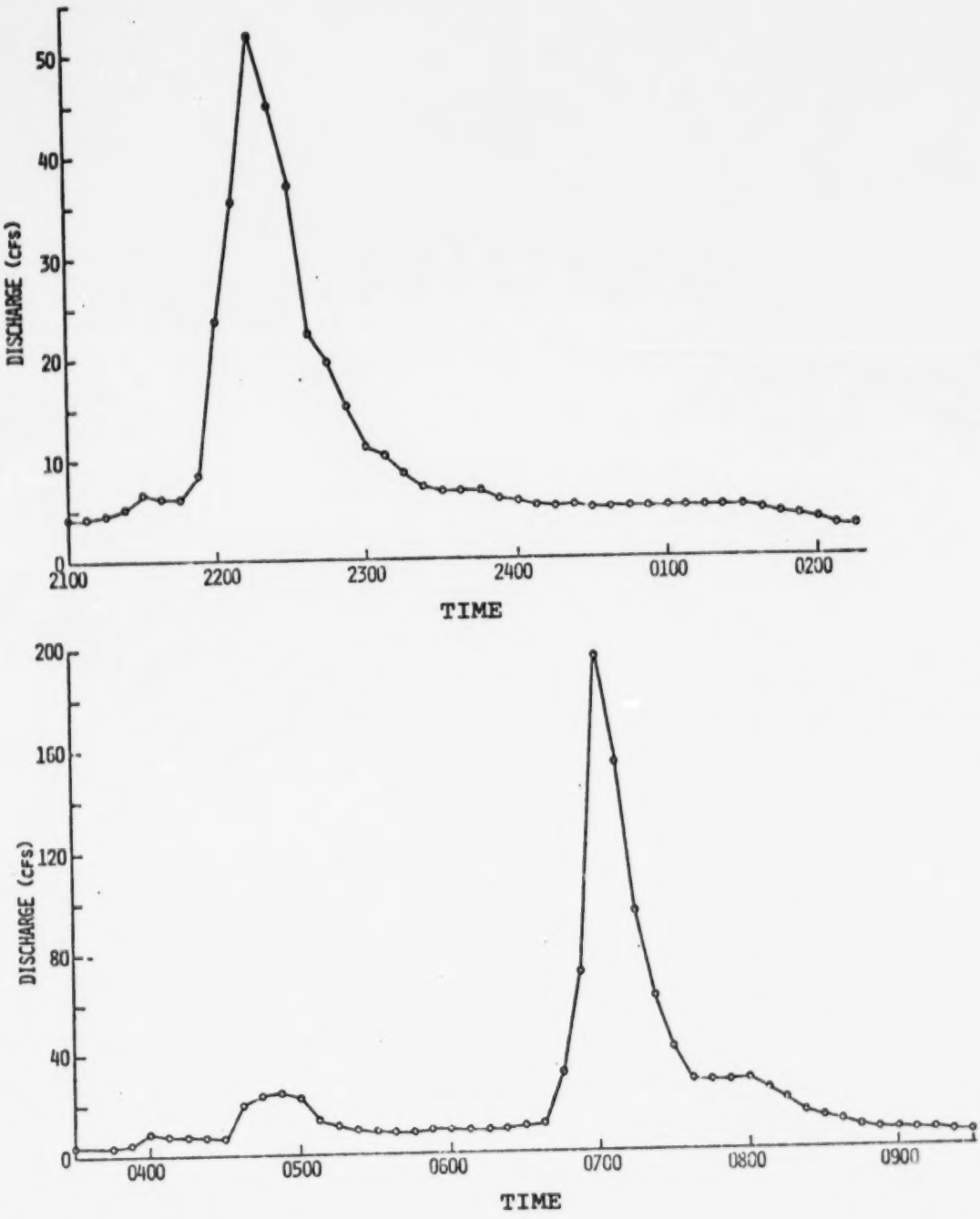
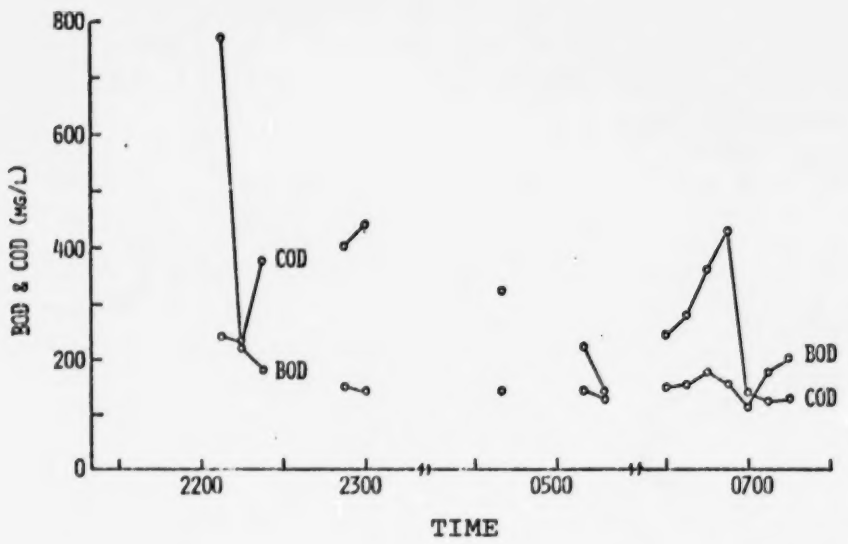


Figure 6-174 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 5 & 6, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER



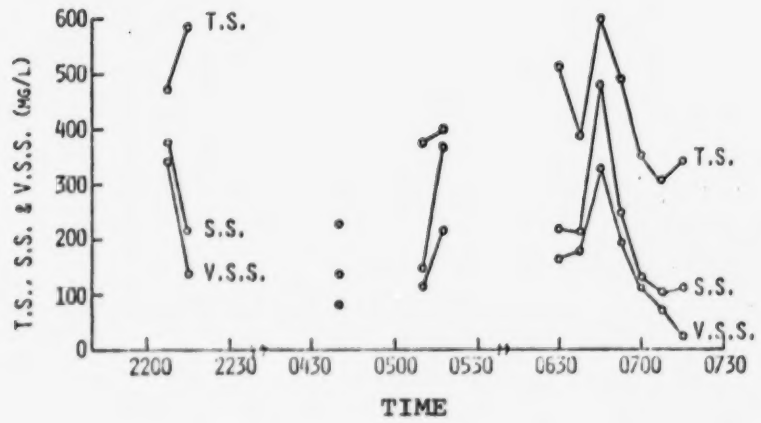


Figure 6-175 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 5 & 6, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

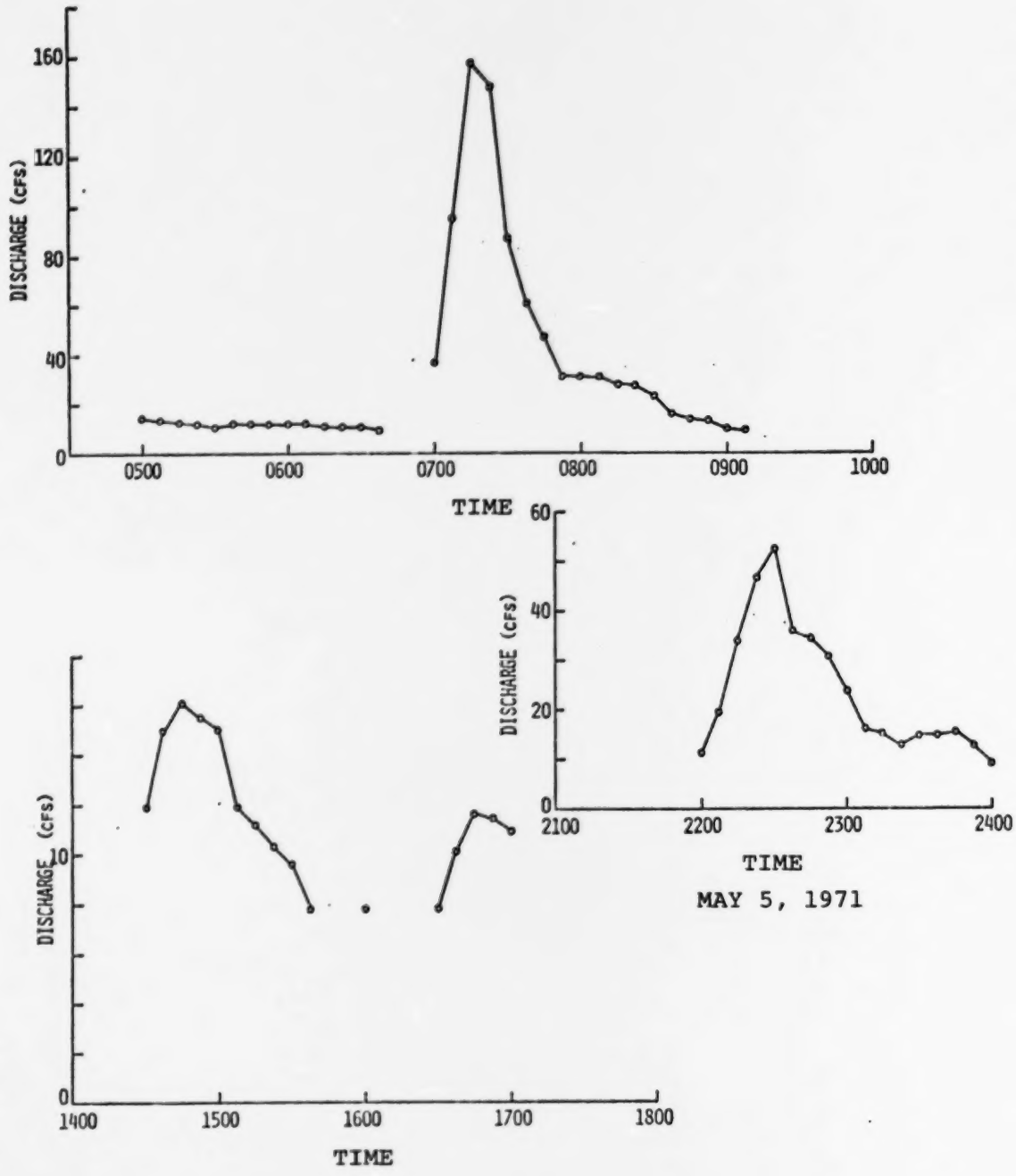


Figure 6-176 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 6, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

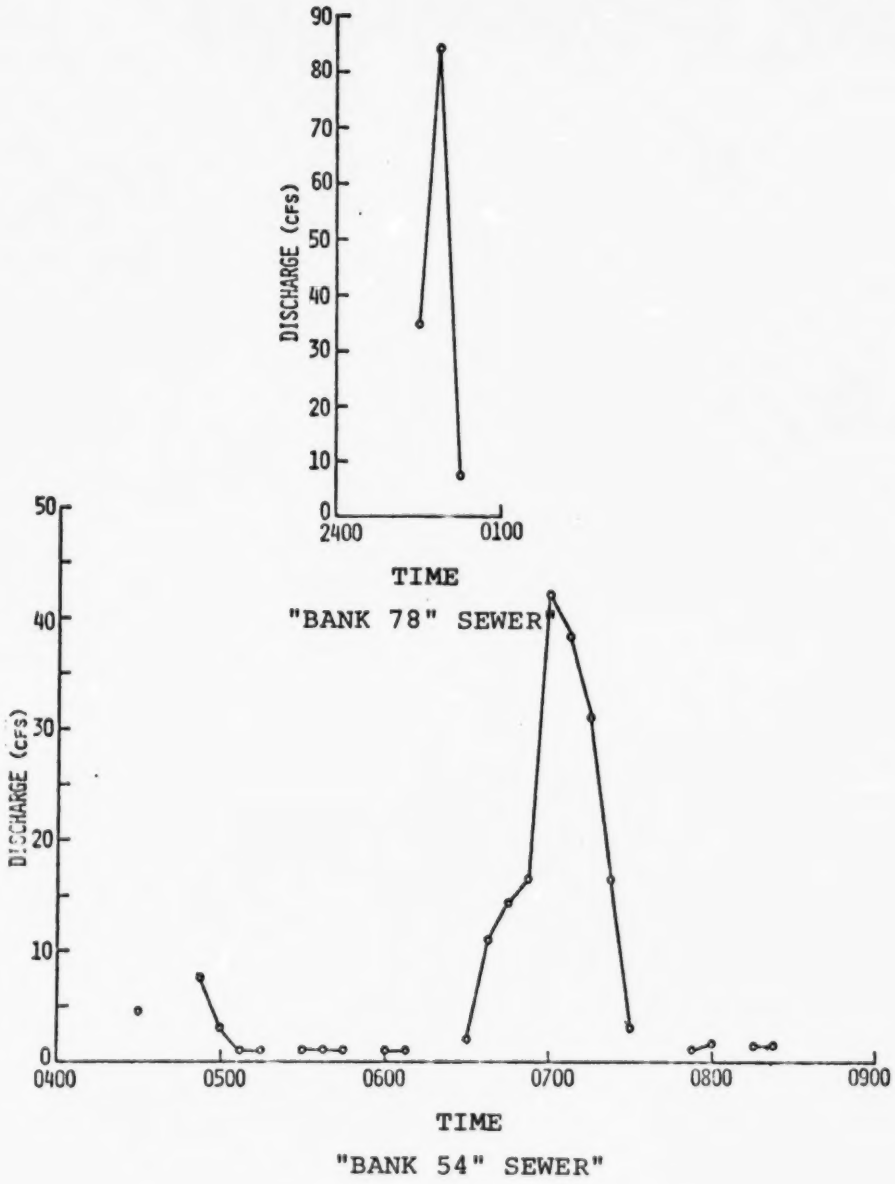
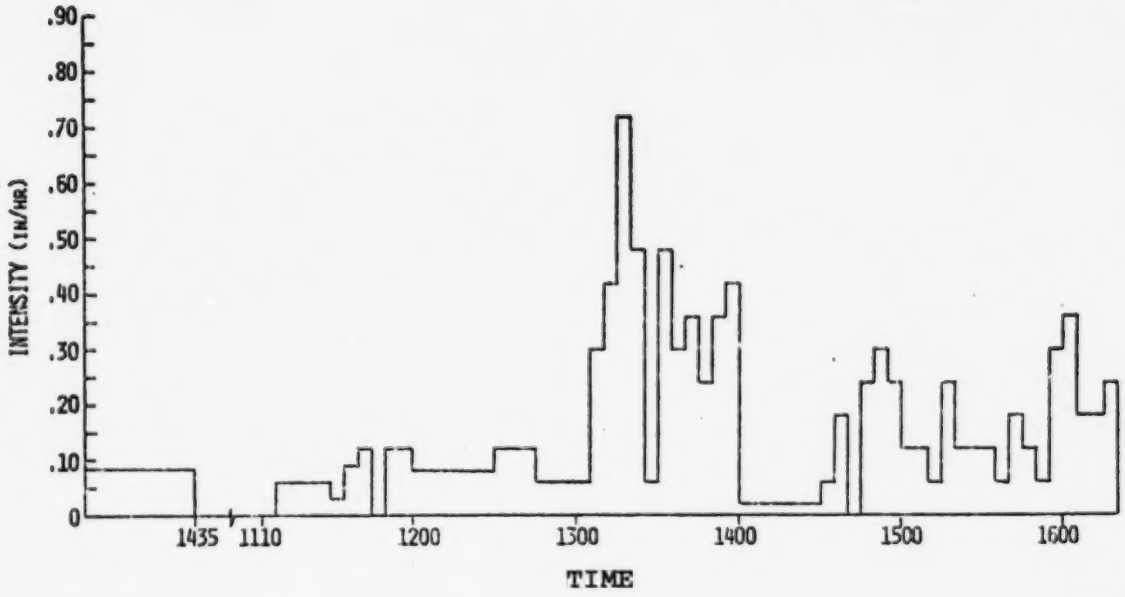


Figure 6-177 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 6, 1971



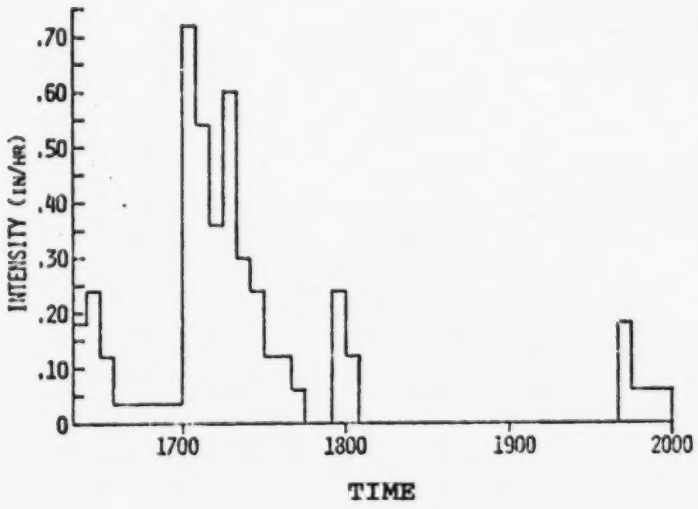
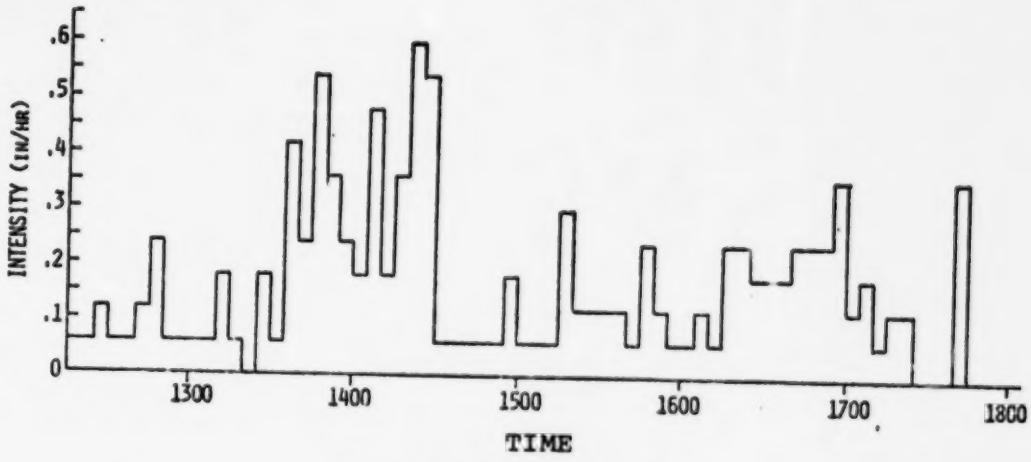
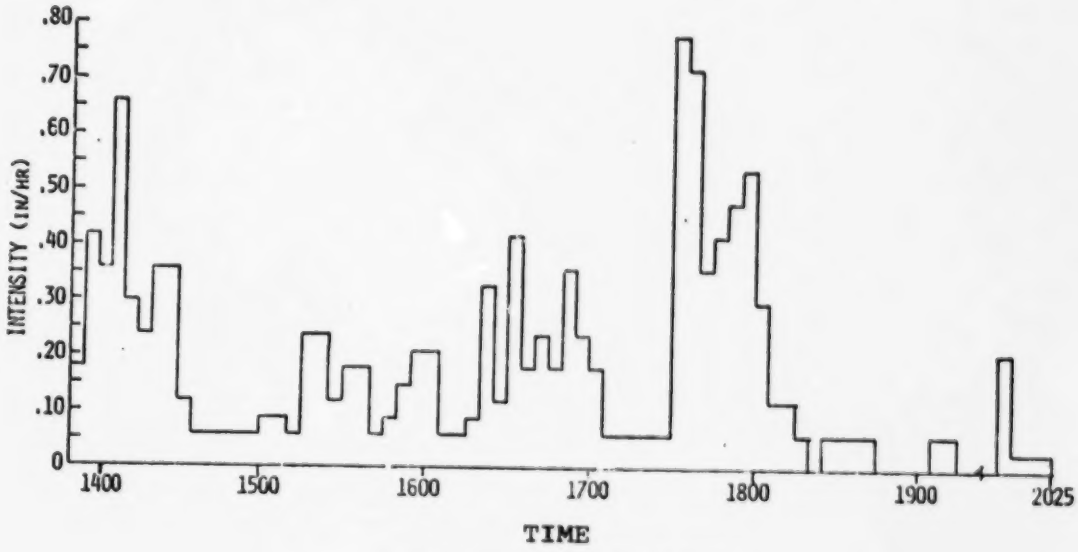


Figure 6-178 RAINFALL OF MAY 7, 1971
LAIDLAW RAINGAGE
HYETOGRAPH



"RIDGE RAINGAGE"



"WOODWARD RAINGAGE"

Figure 6-179 RAINFALL OF MAY 7, 1971
HYETOGRAPHS

Table 6-44 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 7, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Suspended Solids	Volatile Suspended Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage					
1322:30	-	-	-	30	-	-	-	-
1330	-	-	.06	95	142	86	146	392
1337:30	-	-	.42	115	486	322	165	504
1345	-	-	.24	125	312	186	159	424
1352:30	-	.18	.36	130	324	242	94	452
1400	.084	.42	.24	140	307	281	146	392
1407:30	.084	.66	.48	155	252	116	171	352
1415	.084	.30	.18	170	352	114	161	408
1422:30	.084	.36	.60	200	281	171	172	336
1430	.084	.36	.54	240	286	181	173	332
1437:30	.084	.06	.06	315	110	101	141	312
1445	-	.06	.06	590	189	86	151	236
1452:30	-	.06	.06	660	286	171	79	224
1500	-	.06	.18	610	181	101	114	244
1507:30	-	.09	.06	635	272	141	45	204
1515	-	.06	.06	560	289	189	55	180
1522:30	-	.24	.12	540	276	172	38	184
1530	-	.12	.12	455	284	141	48	184
1537:30	-	.18	.12	380	199	171	80	184
1545	-	.06	.06	325	200	098	50	252
1552:30	-	.15	.12	275	231	90	40	320
1600	-	.21	.06	270	284	76	53	324
1607:30	-	.06	.12	265	176	48	94	416
1615	-	.06	.06	305	141	22	22	424

Table 6-45 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 7, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	Coliform
	Laidlaw Gage	Woodward Gage	Ridge Gage							
1630	.24	.12	.18	350	386	182	76	-	56	7300
1637:30	.036	.18	.18	335	341	167	69	-	72	6900
1645	.036	.24	.24	320	398	197	88	-	76	6200
1652:30	.036	.36	.24	325	467	218	186	203	244	6400
1700	.036	.24	.36	335	390	140	78	195	260	6500
1707:30	.54	.06	.18	325	340	188	121	157	232	8100
1715	.36	.06	.06	310	541	221	165	-	236	7600
1722:30	.30	.06	.12	320	789	504	304	62	232	7400
1730	.24	.06	-	380	761	415	371	68	292	7200
1737:30	.12	.72	-	395	755	540	385	-	250	5900
1745	.06	.42	.36	405	741	325	175	68	240	6200
1752:30	-	.48	-	435	485	203	170	67	180	5300
1800	.24	.54	-	430	491	381	148	-	216	5400
1807:30	-	.12	-	380	399	330	179	-	144	5000
1815	-	.12	-	340	386	295	121	91	-	5000
1822:30	-	-	-	355	471	244	150	71	188	5000
1830	-	.06	-	470	488	260	141	73	176	4800
1837:30	-	.06	-	655	-	455	306	75	228	4100
1845	-	-	-	675	571	292	134	60	360	3700
1852:30	-	-	-	665	585	232	105	70	228	2400
1900	-	-	-	620	541	317	171	-	260	1600
1907:30	-	.06	-	530	-	-	-	-	-	-
1915	-	-	-	450	-	-	-	36	224	-
1922:30	-	-	-	425	-	-	-	-	260	-

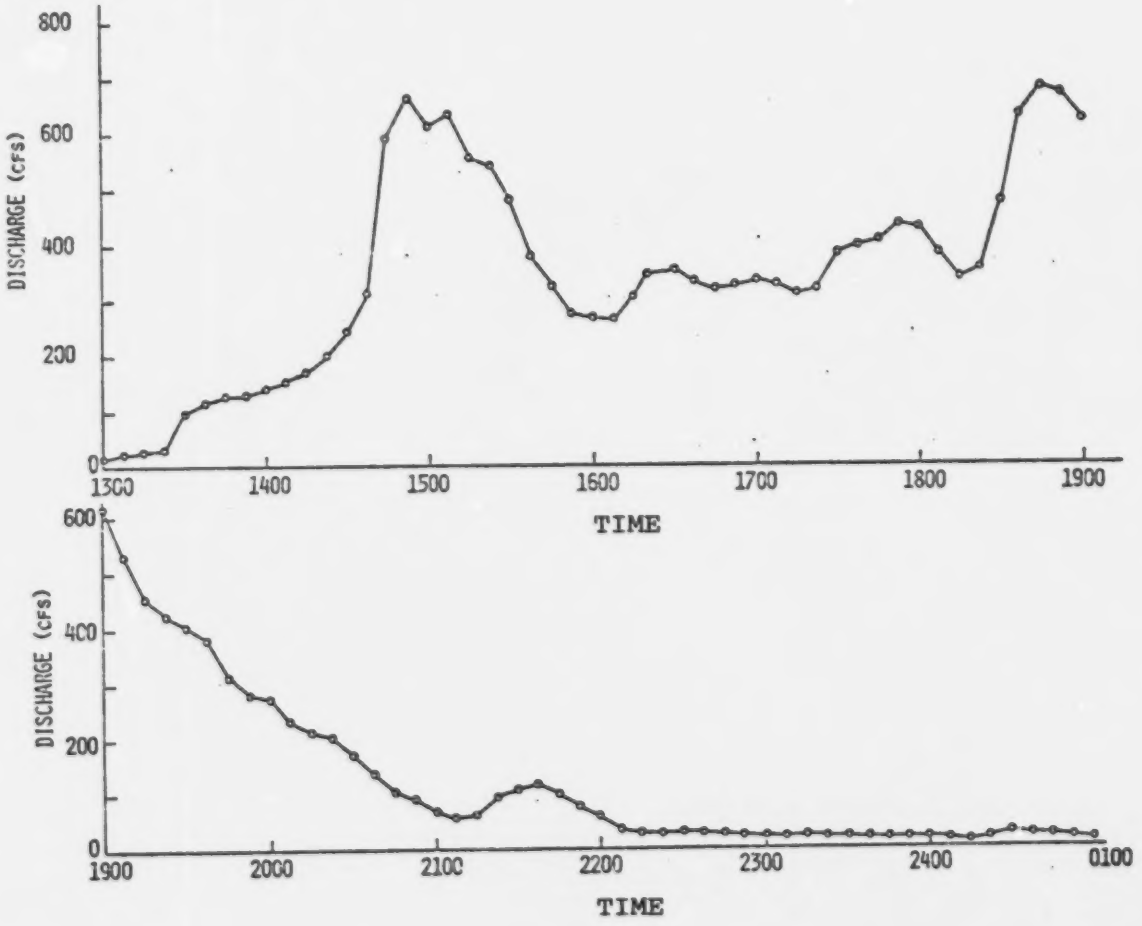


Figure 6-180 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

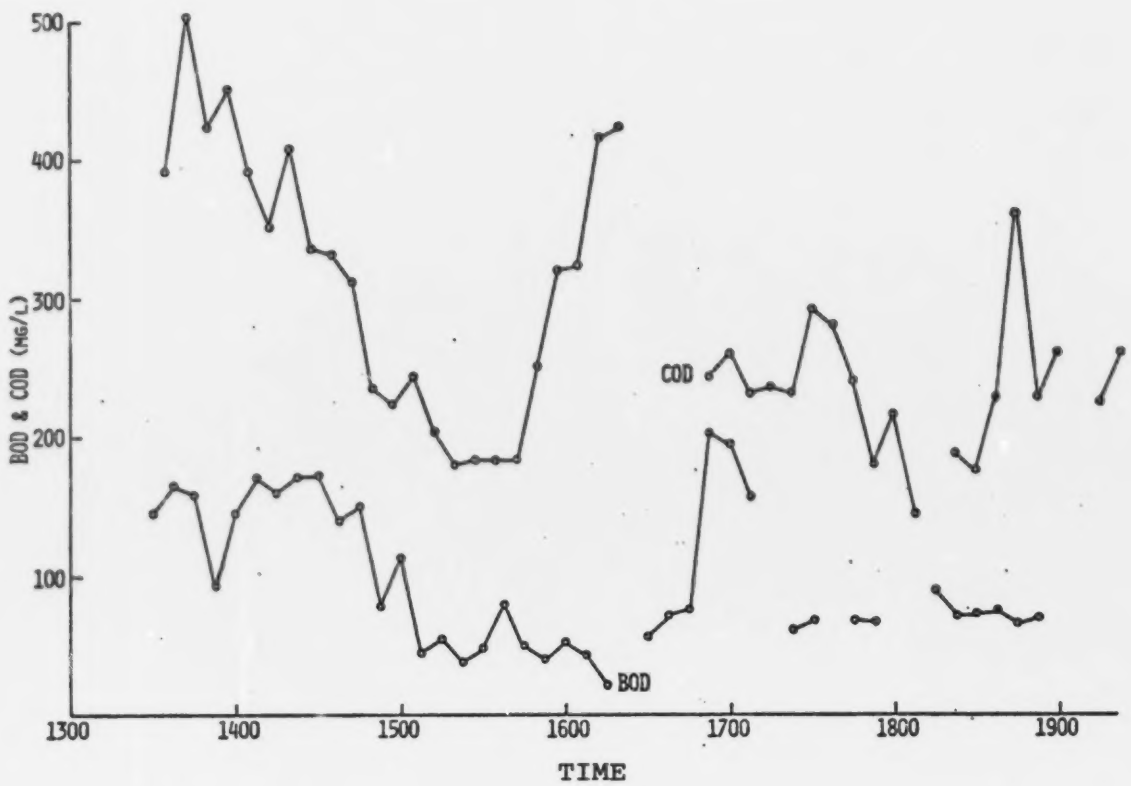


Figure 6-181 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

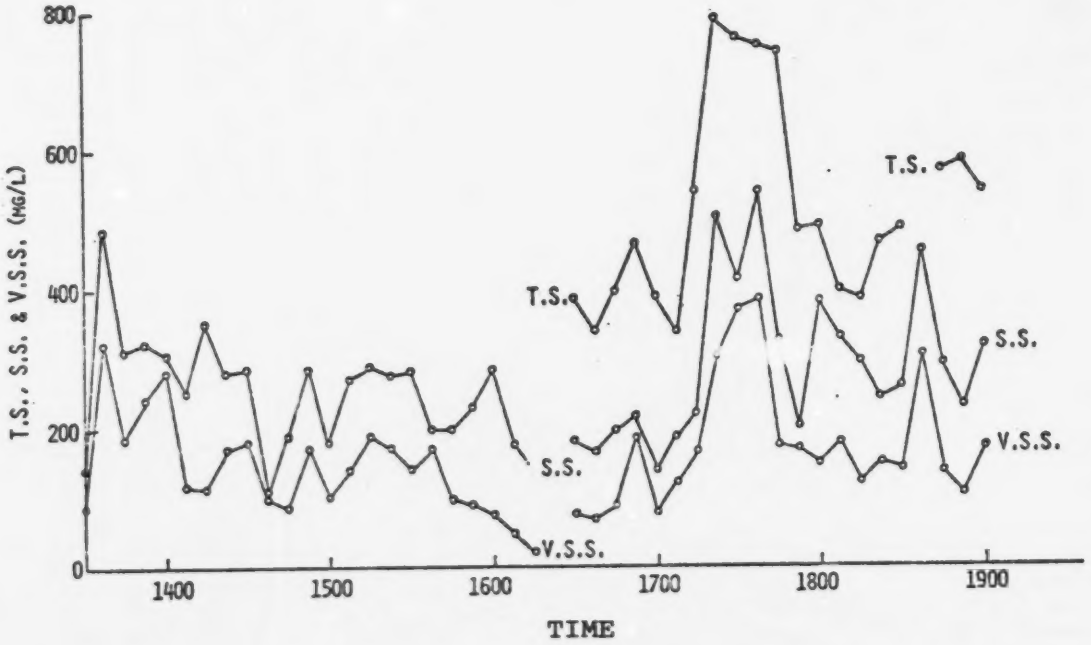


Figure 6-182 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-46 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

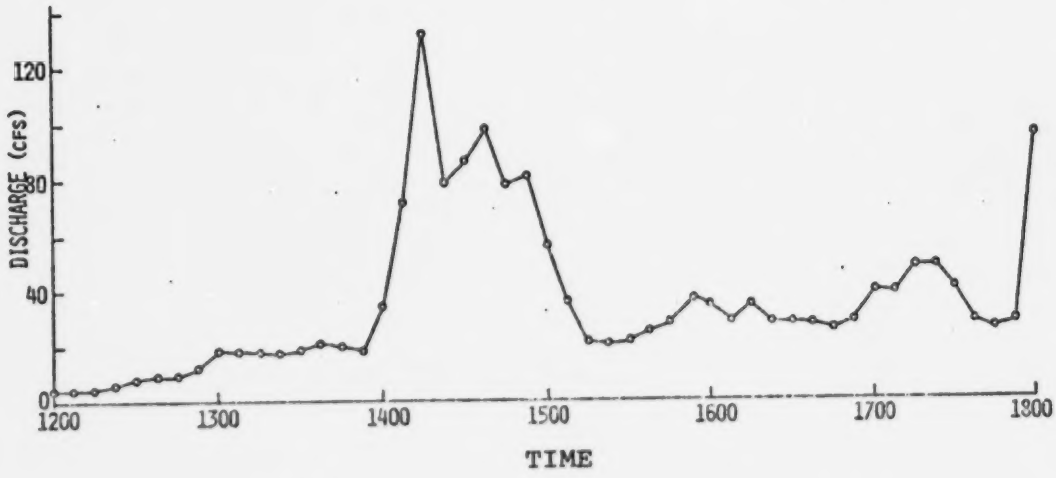
DATE OF STORM: May 7, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage					
1250	.06	-	.24	10.5	24	16	99	-
1257:30	.06	-	.06	15.5	125	68	66	136
1305	.06	-	.06	19.5	40	17	64	124
1312:30	.42	-	.18	18.2	165	101	61	224
1320	.72	-	.06	17.6	271	171	80	204
1327:30	.06	-	.18	18.6	147	168	-	184
1335	.48	-	.06	20.3	297	129	58	124
1342:30	.36	-	.24	19.6	-	-	-	104
1350	.24	-	.54	18.2	-	-	-	216
1357:30	.42	.42	.24	34.5	-	-	-	152
1405	.02	.36	.18	71.6	-	-	-	56
1412:30	.02	.30	.18	131.9	638	496	41	216
1420	.02	.24	.36	78.5	837	613	36	164
1427:30	.02	.36	.54	86.4	220	133	54	136
1435	.06	.12	.06	97.0	-	-	-	116
1442:30	-	.06	.06	78	119	79	54	112
1450	.24	.06	.06	81	169	131	61	88
1457:30	.24	.06	.18	56	248	142	59	64
1505	.12	.09	.06	36	-	-	-	56
1512:30	.06	.06	.06	21	228	151	36	72
1520	.24	.24	.30	20	270	155	69	80
1527:30	.12	.12	.12	22	-	-	-	96
1535	.12	.18	.12	25	216	165	28	100
1542:30	.18	.06	.06	28	198	131	63	96

Table 6-47 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 7, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage					
1700	.036	.24	.36	39	-	-	-	84
1707:30	.54	.06	.18	39	-	-	-	72
1715	.36	.06	.06	47.9	168	114	-	-
1722:30	.30	.06	.12	47.9	-	-	-	76
1730	.24	.06	-	40	107	86	-	144
1737:30	.12	.72	-	28.1	98	34	96	132
1745	.06	.36	.36	25.4	76	28	-	-
1752:30	-	.48	-	27.3	75	29	-	136
1800	.24	.54	-	95	105	46	-	112
1807:30	-	.12	-	100.8	110	49	-	88
1815	-	.12	-	94.4	-	-	-	68
1822:30	-	-	-	86.4	145	105	35	56
1830	-	.06	-	76.9	108	-	57	76
1837:30	-	.06	-	49.2	191	171	47	-
1845	-	.06	-	46.9	-	-	32	60
1852:30	-	-	-	43.9	137	89	48	220
1900	-	-	-	42	171	86	-	52
1907:30	-	.06	-	23	148	71	-	128
1915	-	-	-	21.4	165	74	81	100
1922:30	-	-	-	21.8	163	86	77	-
1930	-	-	-	19.6	171	88	35	-
1937:30	-	-	-	19.2	-	-	28	84
1945	.18	-	-	13.7	146	99	42	60
1952:30	.06	-	-	12.9	116	100	26	44



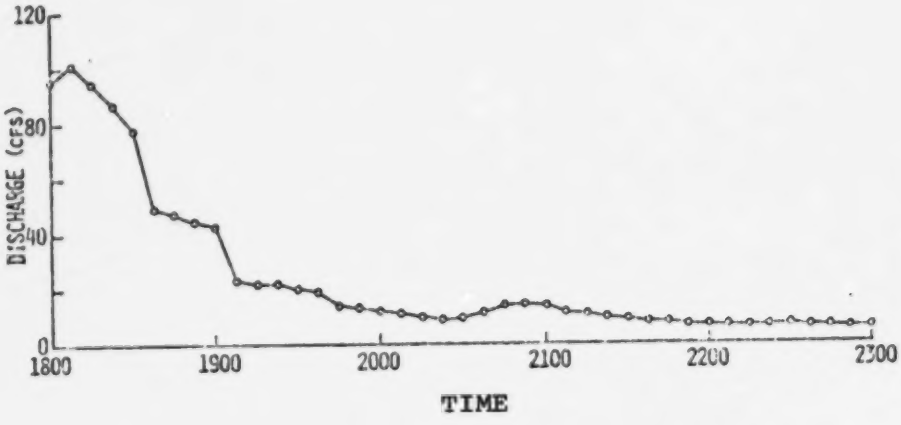


Figure 6-183 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

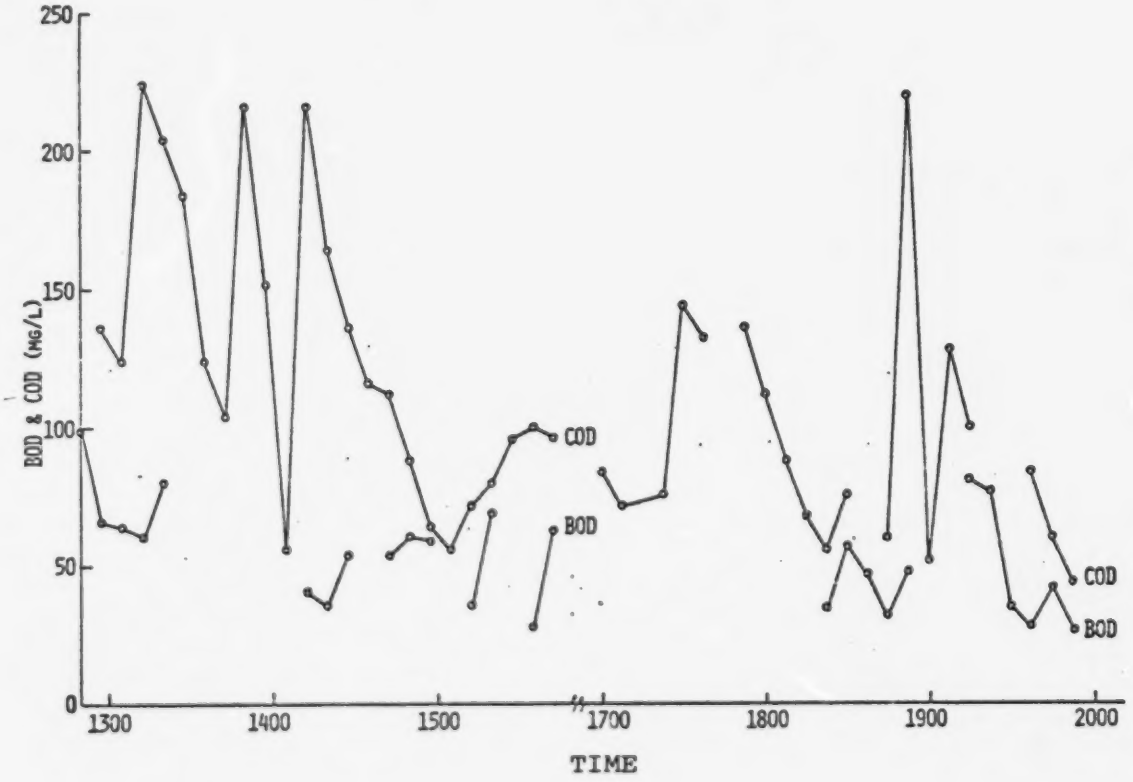


Figure 6-184 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

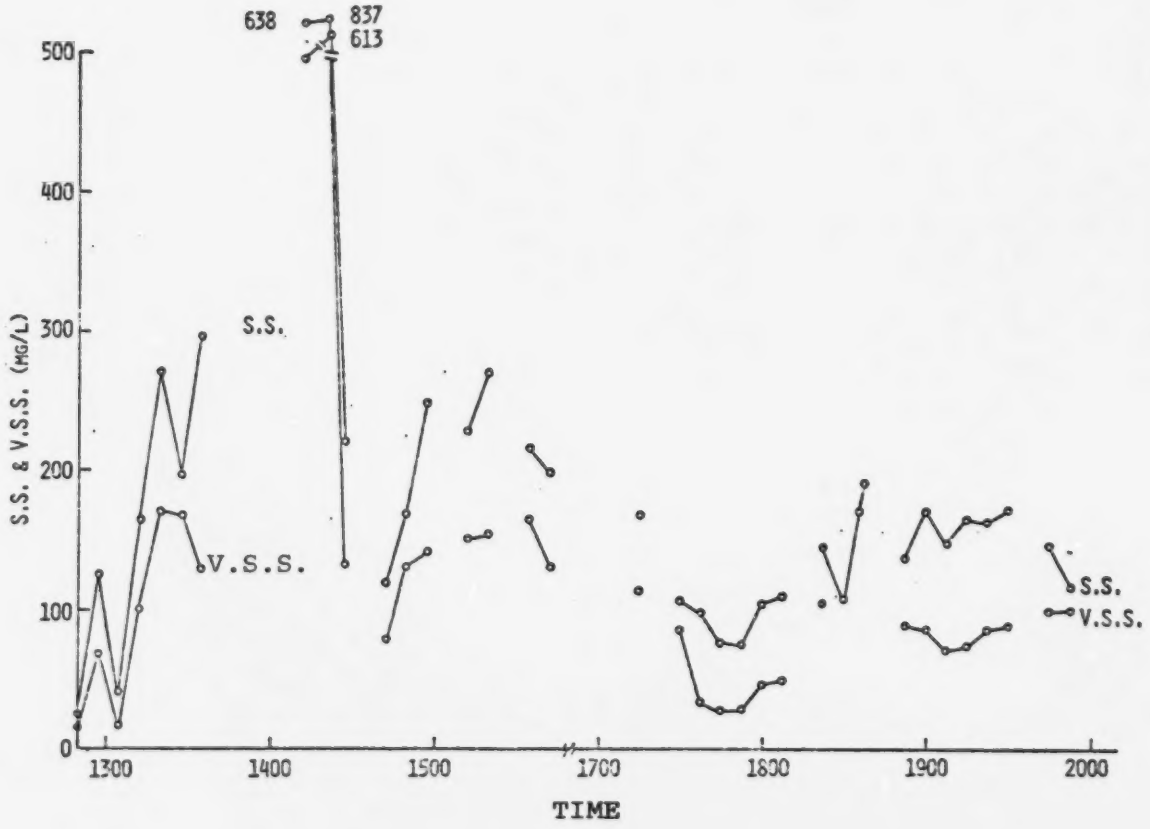
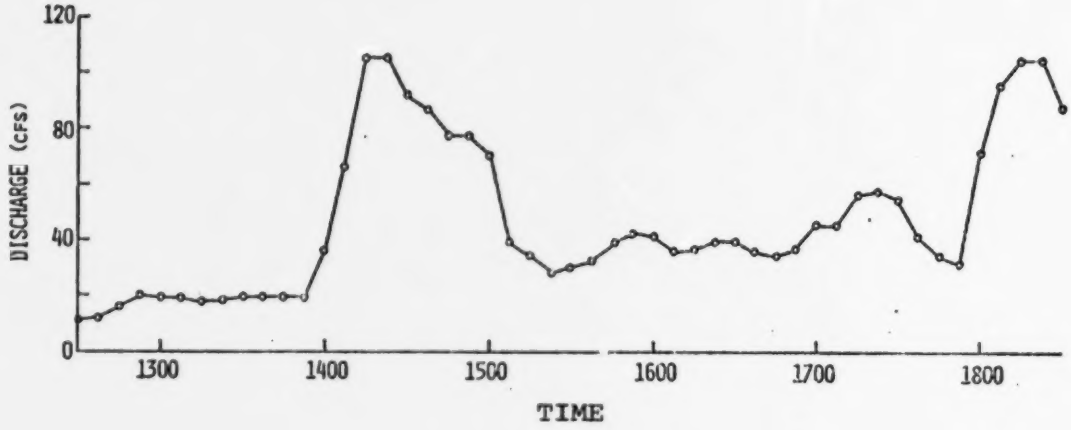


Figure 6-185 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER



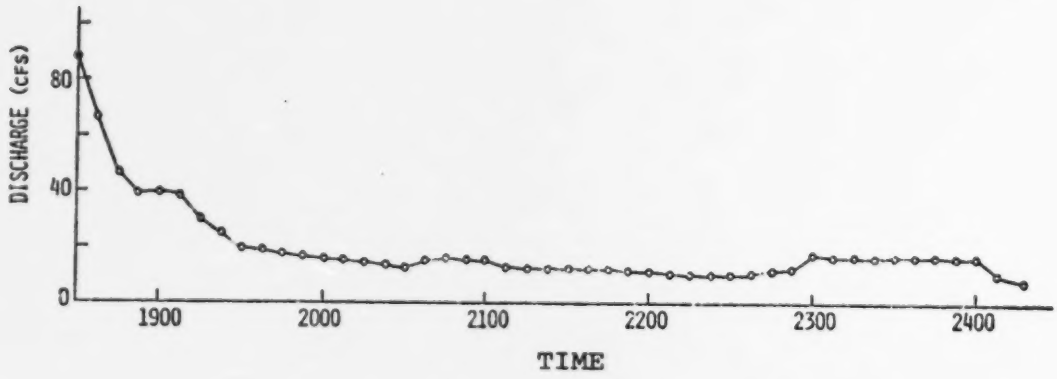
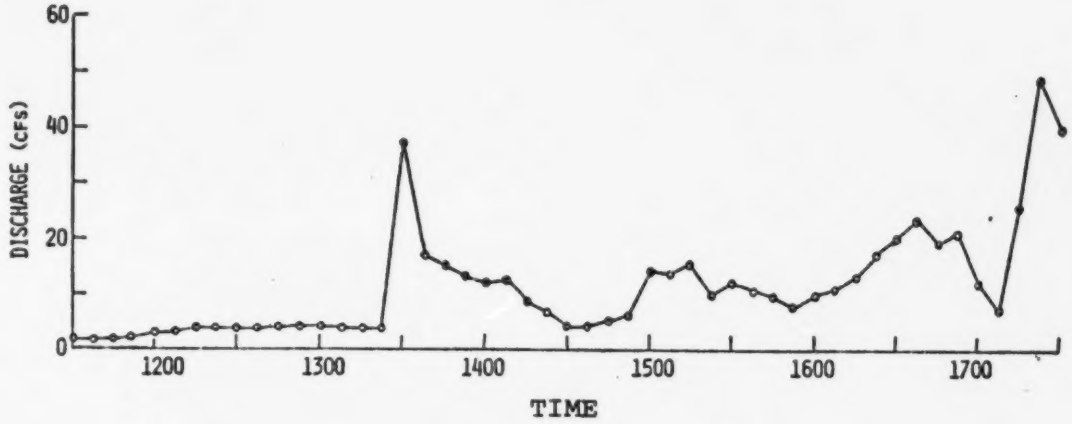


Figure 6-186 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER



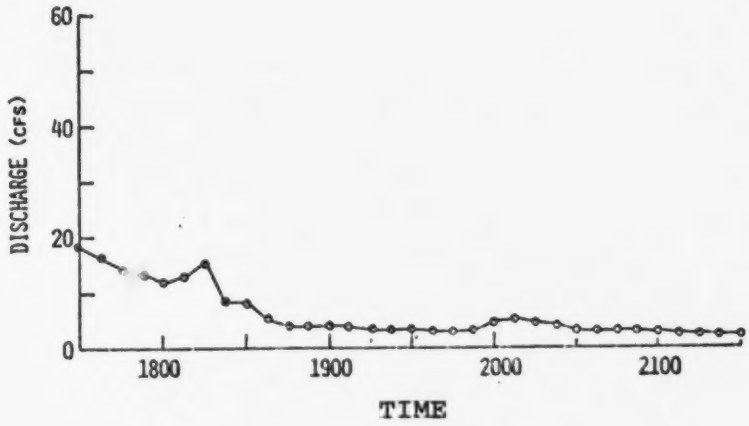


Figure 6-187 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: BANK
78" SEWER

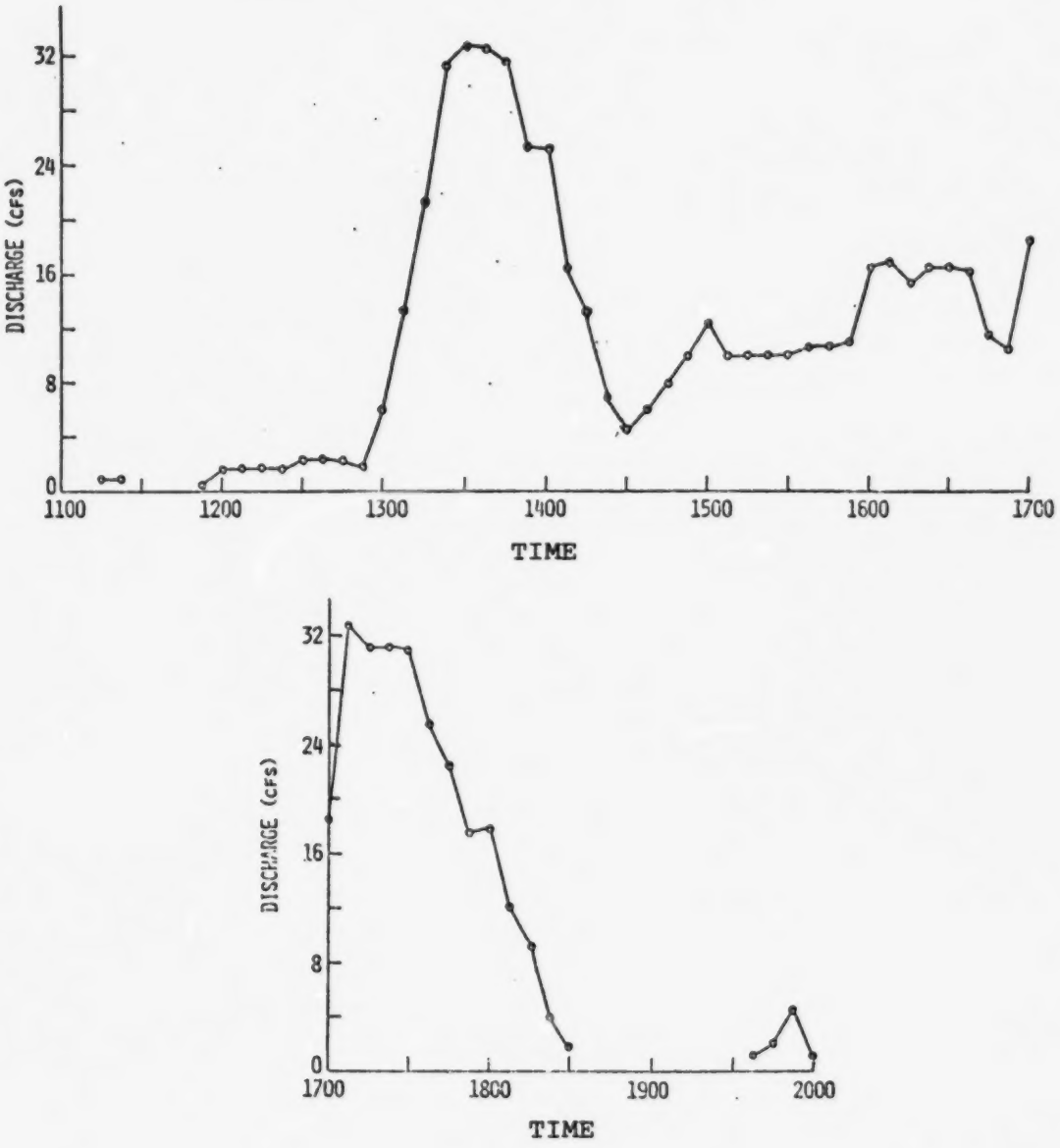


Figure 6-188 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 7, 1971
MONITORING STATION: BANK
54" SEWER

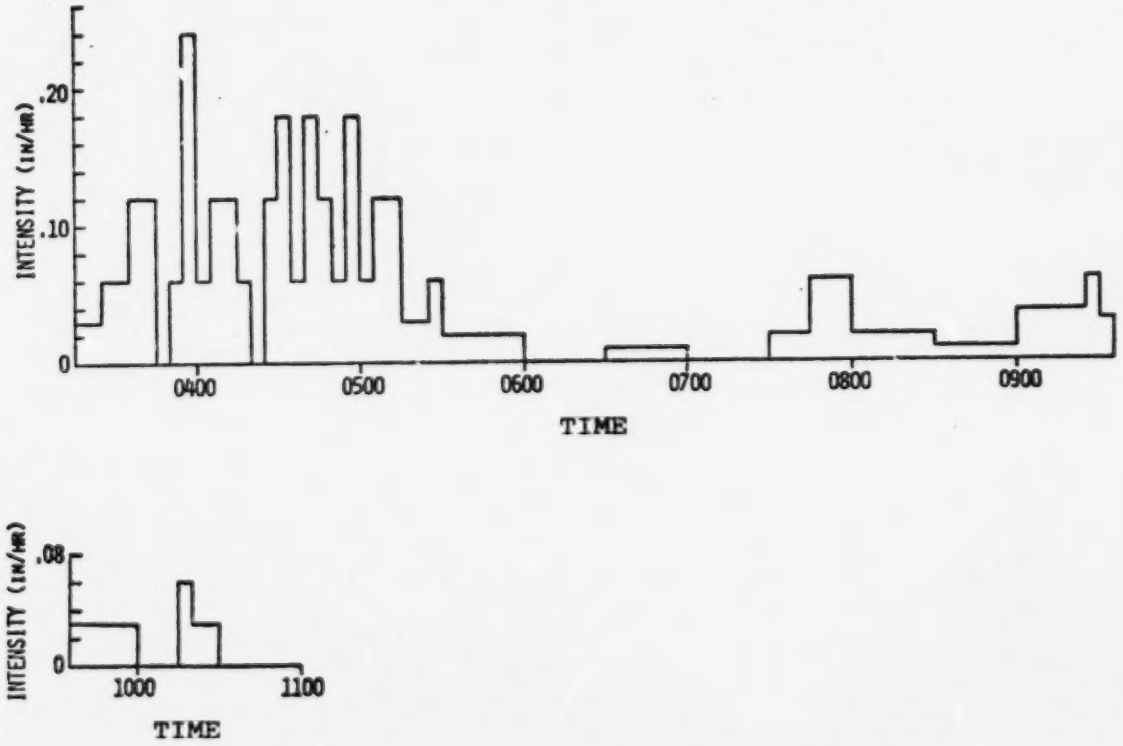
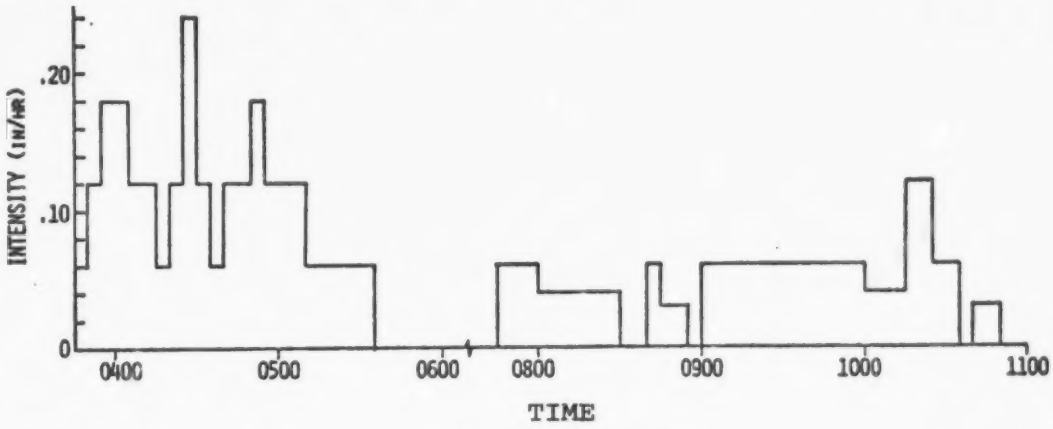
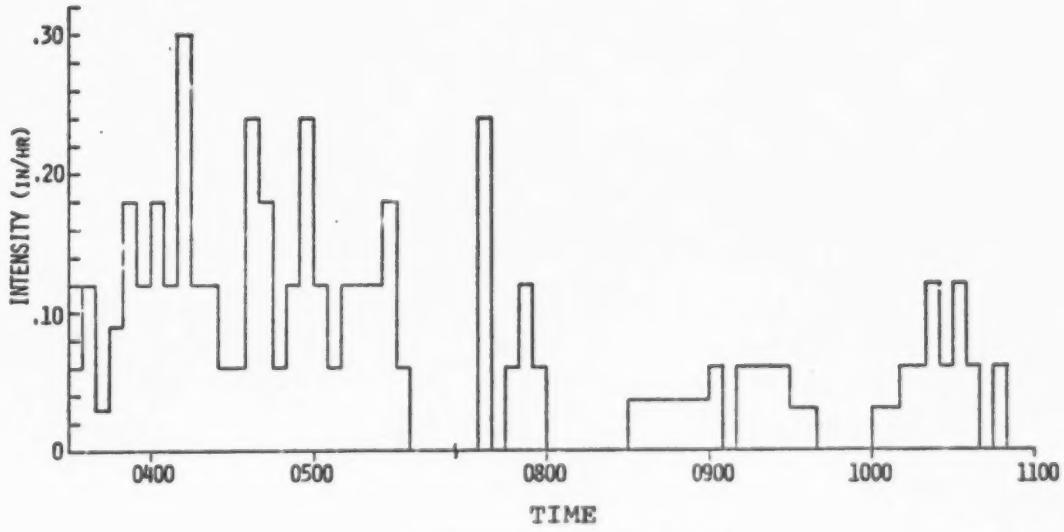


Figure 6-189 RAINFALL OF MAY 13, 1971
LAIDLAW RAINGAGE
HYETOGRAPHS



"RIDGE RAINGAGE"



"WOODWARD RAINGAGE"

Figure 6-190 RAINFALL OF MAY 13, 1971
HYETOGRAPHS

Table 6-48 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Coliform
	Laidlaw Gage	Woodward Gage	Ridge Gage							
0350	.06	.18	.12	35	-	-	-	-	-	-
0357:30	.24	.12	.18	93	-	-	-	-	-	-
0405	.12	.12	.12	153	348	259	196	195	816	6000
0412:30	.12	.30	.12	193	396	277	199	173	604	5400
0420	.06	.12	.12	193	486	258	186	176	452	6900
0427:30	.12	.06	.24	192	521	146	112	118	428	5100
0435	.18	.24	.06	199	586	334	216	117	364	5000
0442:30	.18	.18	.12	207	541	282	201	135	424	4200
0450	.12	.12	.18	209	555	214	167	150	380	4100
0457:30	.18	.24	.12	208	348	233	143	63	318	3700
0505	.12	.06	.12	205	289	183	102	56	384	3100
0512:30	.12	.12	.06	199	352	66	24	58	360	3200
0520	.03	.12	.06	179	307	216	186	40	364	3400
0527:30	.06	.18	.06	142	168	122	103	255	284	3100
0535	.02	-	.06	99	296	276	209	253	296	-
0542:30	.02	-	-	50	-	--	-	216	288	-
0550	.02	-	-	31	-	-	-	119	272	-

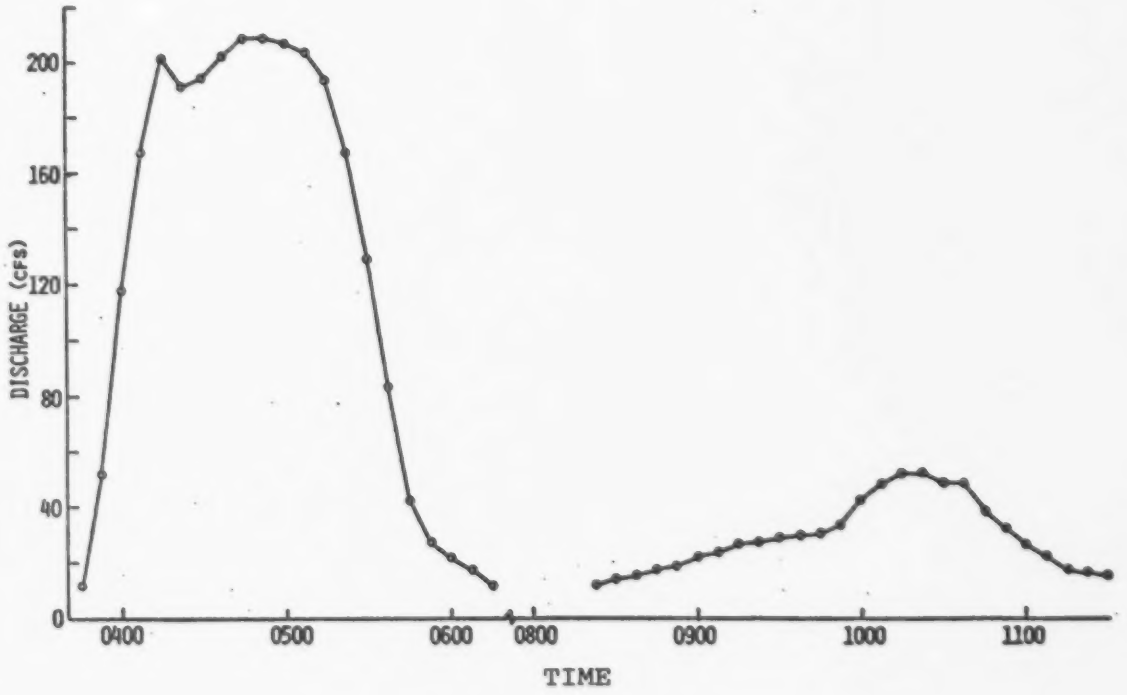


Figure 6-191 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 13, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

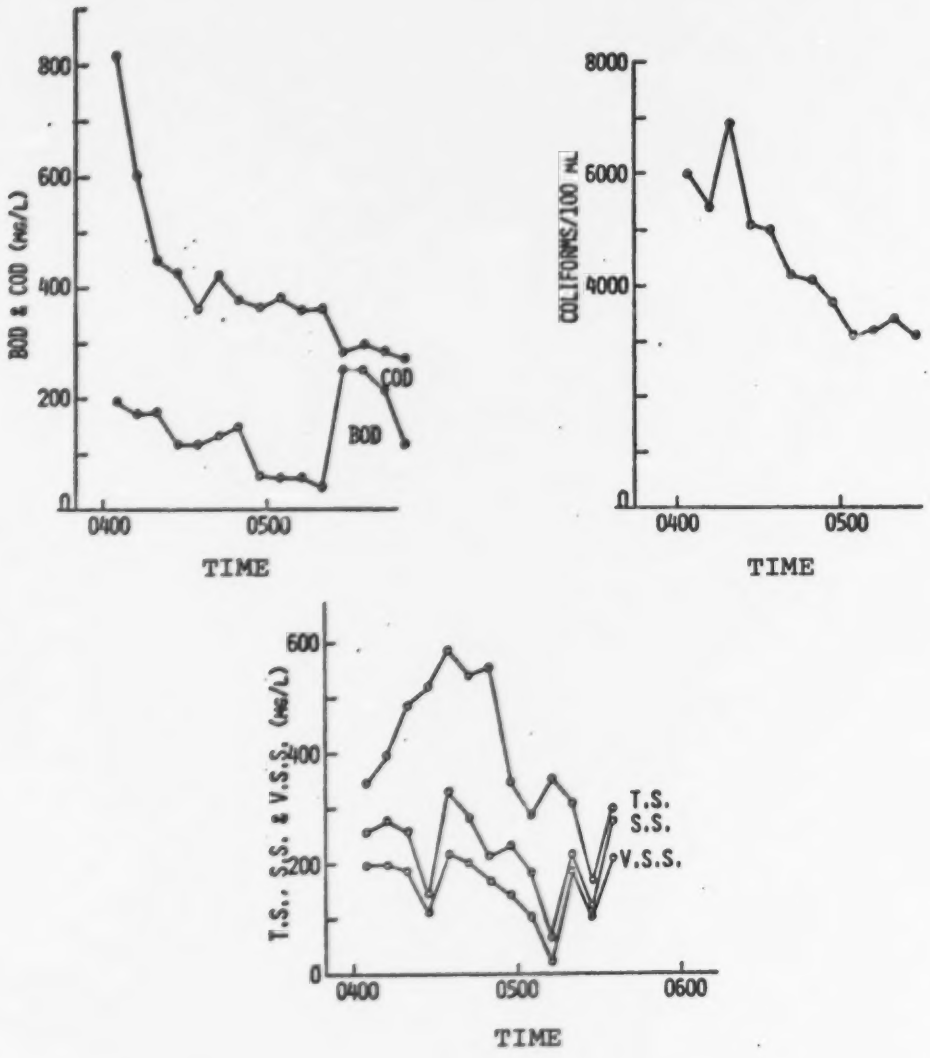


Figure 6-192 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 13, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

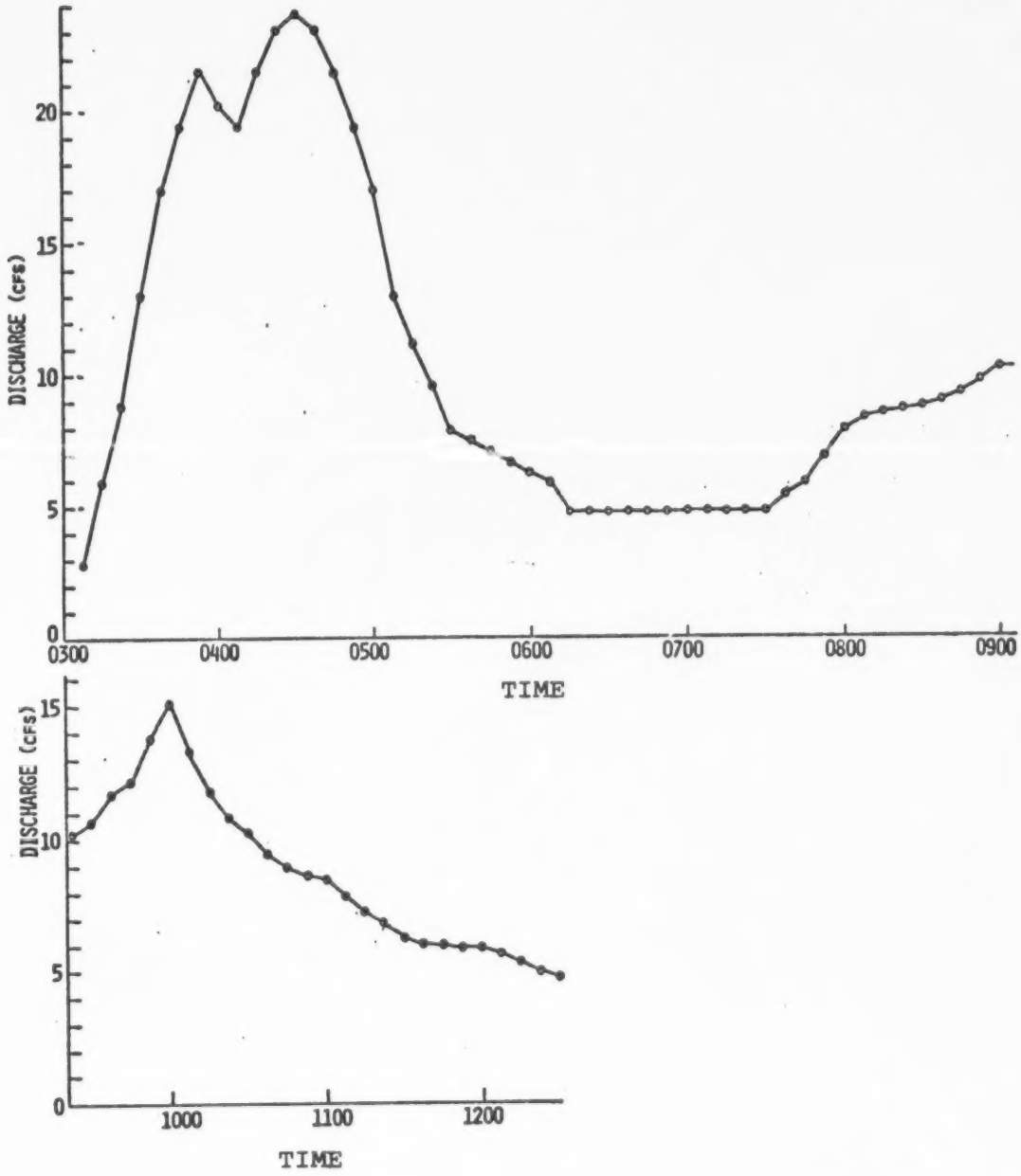


Figure 6-193 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 13, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

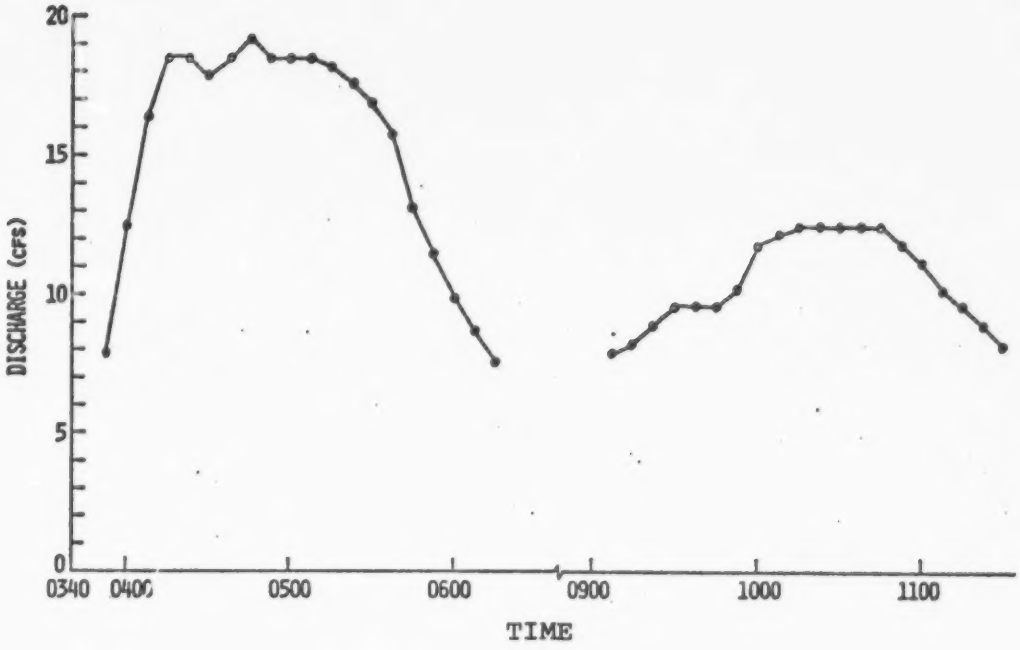
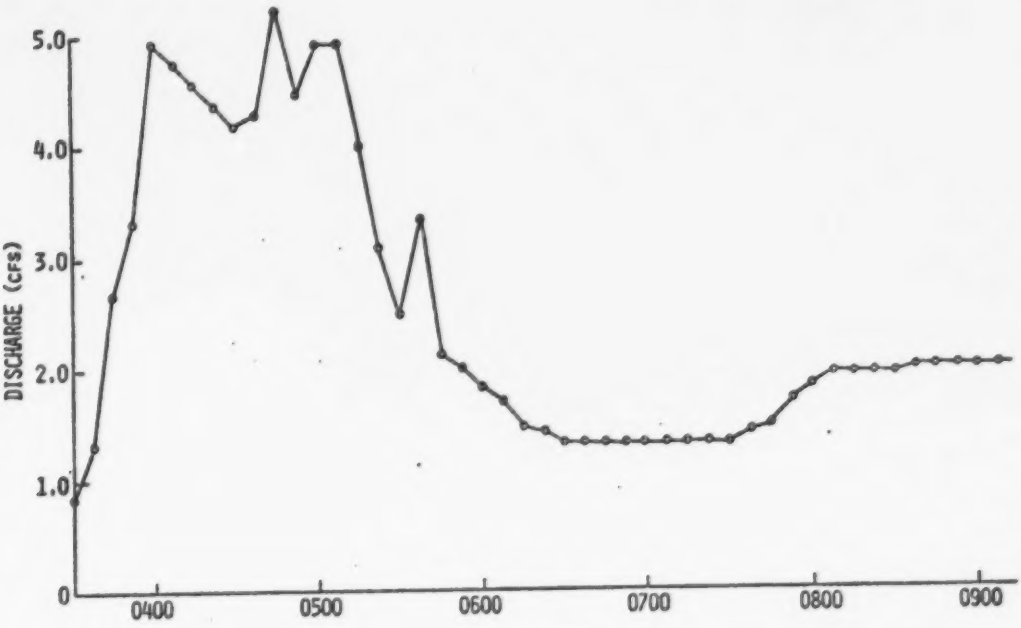
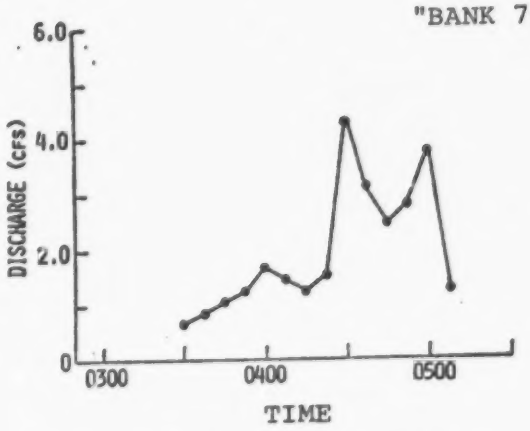


Figure 6-194 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 13, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER



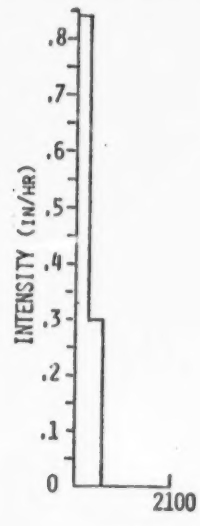
"BANK 78' SEWER"

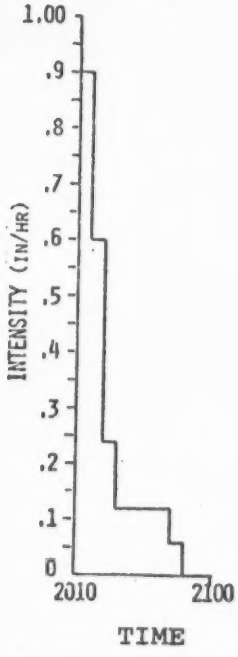


"BANK 54" SEWER"

Figure 6-195 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 13, 1971

"LAIDLAW RAINGAGE"





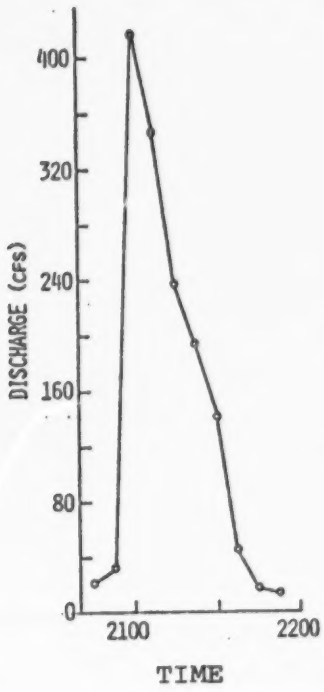
"RIDGE RAINGAGE"

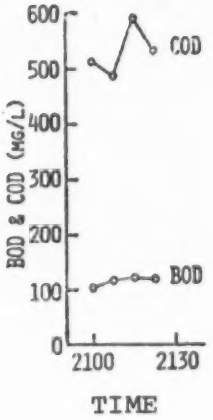
Figure 6-196 RAINFALL OF MAY 19, 1971
HYETOGRAPHS

Table 6-49 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 19, 1971 STATION: Outlet

Time	Intensity of Rain (in/hr)	Discharge cfs	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
2107:30	No Data	346	326	307	102	514
2115		236	341	289	116	487
2122:30		168	389	202	122	590
2130		106	455	188	119	532





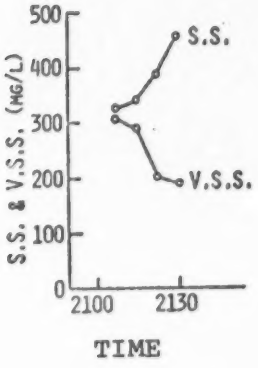
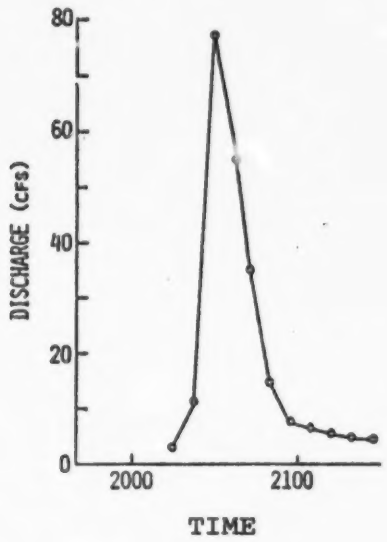


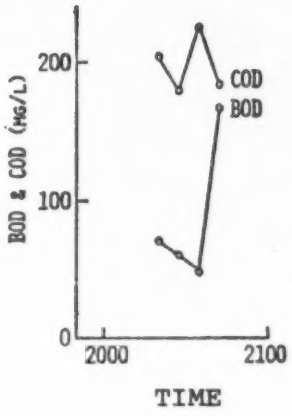
Figure 6-197 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 19, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

Table 6-50 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 19, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD
	Laidlaw Gage	Ridge Gage					
2020	-	.24	8	144	102	70	204
2027:30	.84	.12	57.5	314	286	60	180
2035	-	.12	62	710	571	48	224
2042:30	-	.12	35	356	281	167	184





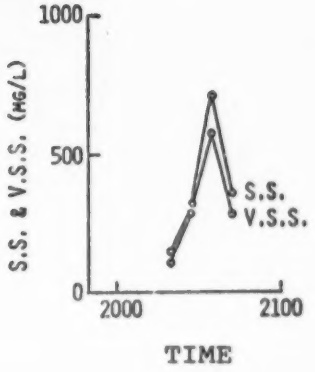


Figure 6-198 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 19, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

Table 6-51 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 19, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr) Ridge Gage	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids
2037:30	.12	14.5	689	412	307
2045	.06	11	399	264	208
2052:30	-	9.5	352	120	89
2100	-	8	498	329	275

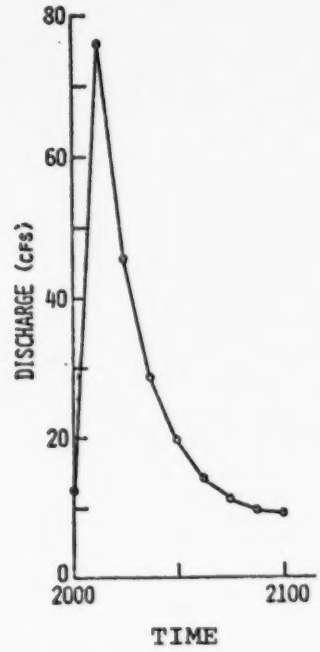


Figure 6-199 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 19, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

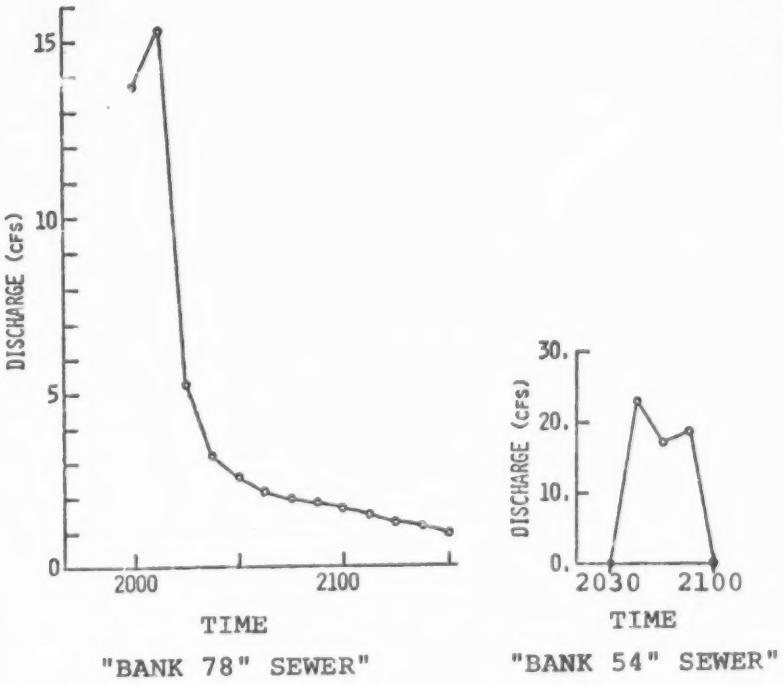


Figure 6-200 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 19, 1971

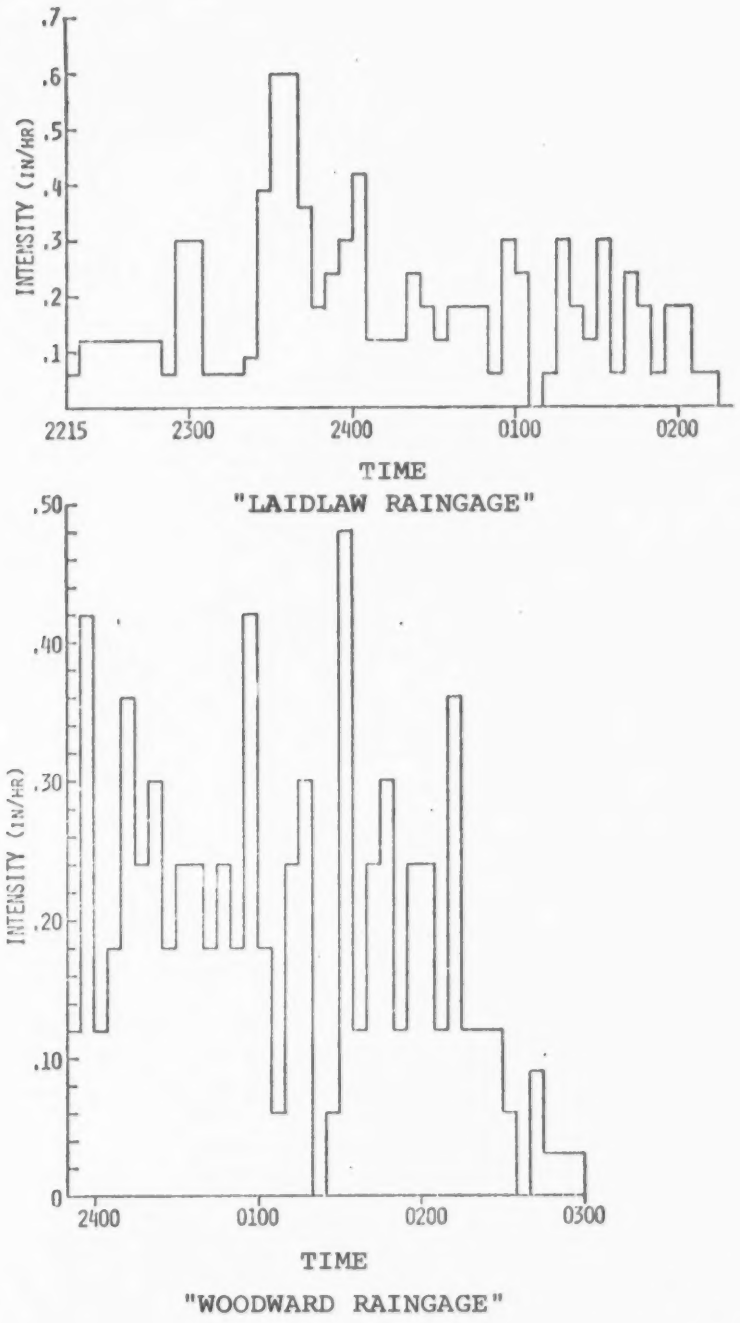


Figure 6-201 RAIN OF MAY 24 & 25, 1971
HYETOGRAPHS

Table 6-52 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 25, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Coliform
	Laidlaw Gage	Woodward Gage						
2325	.39	-	100	-	-	-	-	-
2332:30	.60	-	150	730	210	242	920	2700
2340	.36	-	198	604	428	248	620	4100
2347:30	.18	-	213	350	-	242	556	2900
2355	.30	.42	237	62	38	198	580	1700
0002:30	.42	.12	275	1452	1120	192	496	1400
0010	.12	.36	572	528	410	136	1248	1300
0017:30	.12	.24	600	280	133	167	1136	1700
0025	.18	.18	500	776	513	240	1072	1800
0032:30	.14	.24	438	656	475	250	944	1900
0040	.18	.18	438	132	102	245	912	2900
0047:30	.18	.24	438	190	116	255	836	7100
0055	.30	.42	388	2138	1842	240	1392	6500
0102:30	.24	.18	375	3214	2657	210	1408	6400
0110	.06	.24	368	2926	2481	118	1476	7100
0117:30	.30	.30	365	3460	2762	142	1248	6200
0125	.12	.06	363	4414	3875	124	1168	3700
0132:30	.30	.48	333	1918	1612	118	884	3800
0140	.24	.24	306	550	413	87	692	3900
0147:30	.18	.30	305	392	289	118	532	4300
0155	.18	.24	338	138	101	160	460	4200
0202:30	.18	.24	348	270	162	210	400	4900
0210	.06	.36	343	386	219	167	328	4700
0217:30	-	.12	327	300	211	148	348	4700

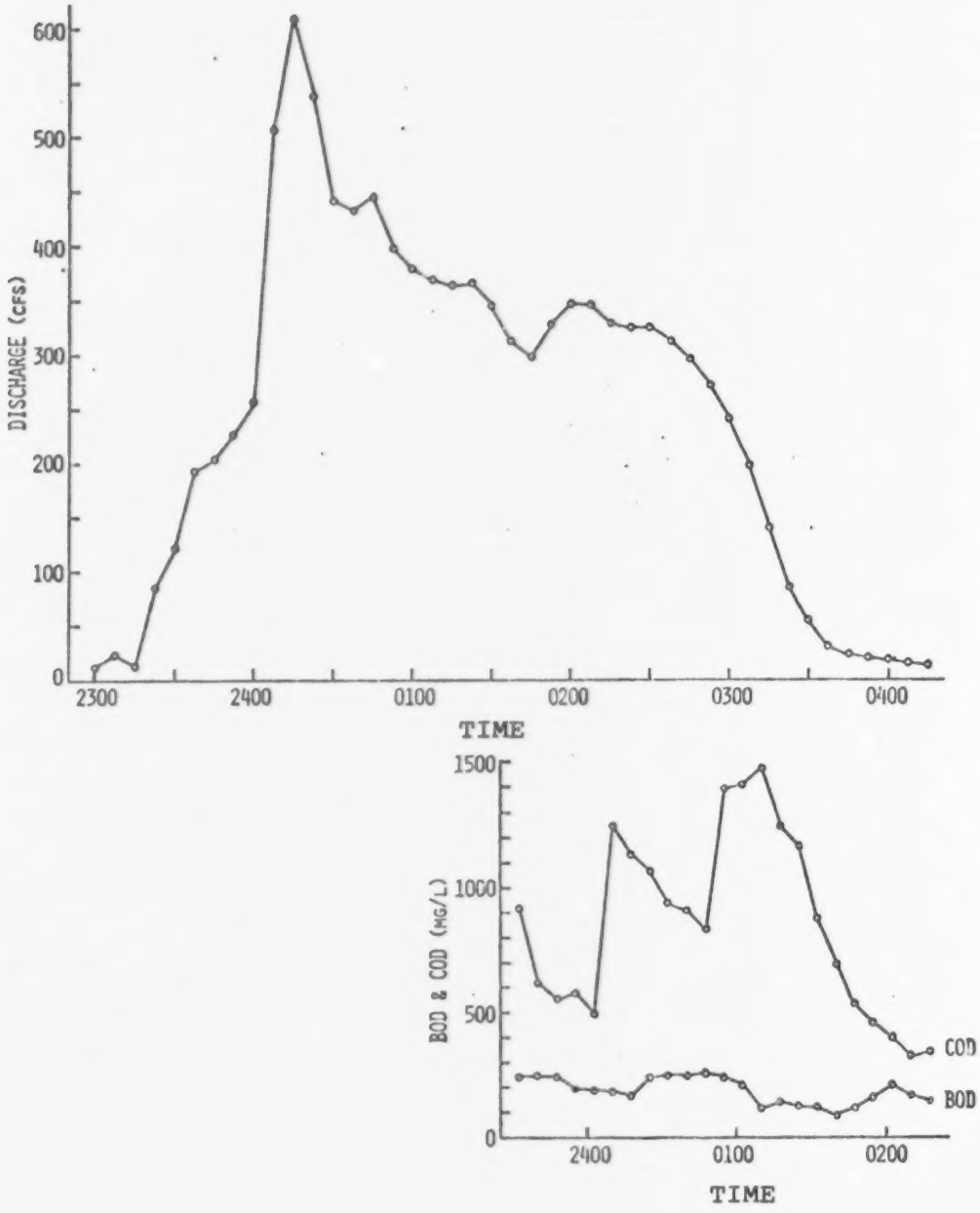


Figure 6-202 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 24 & 25, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

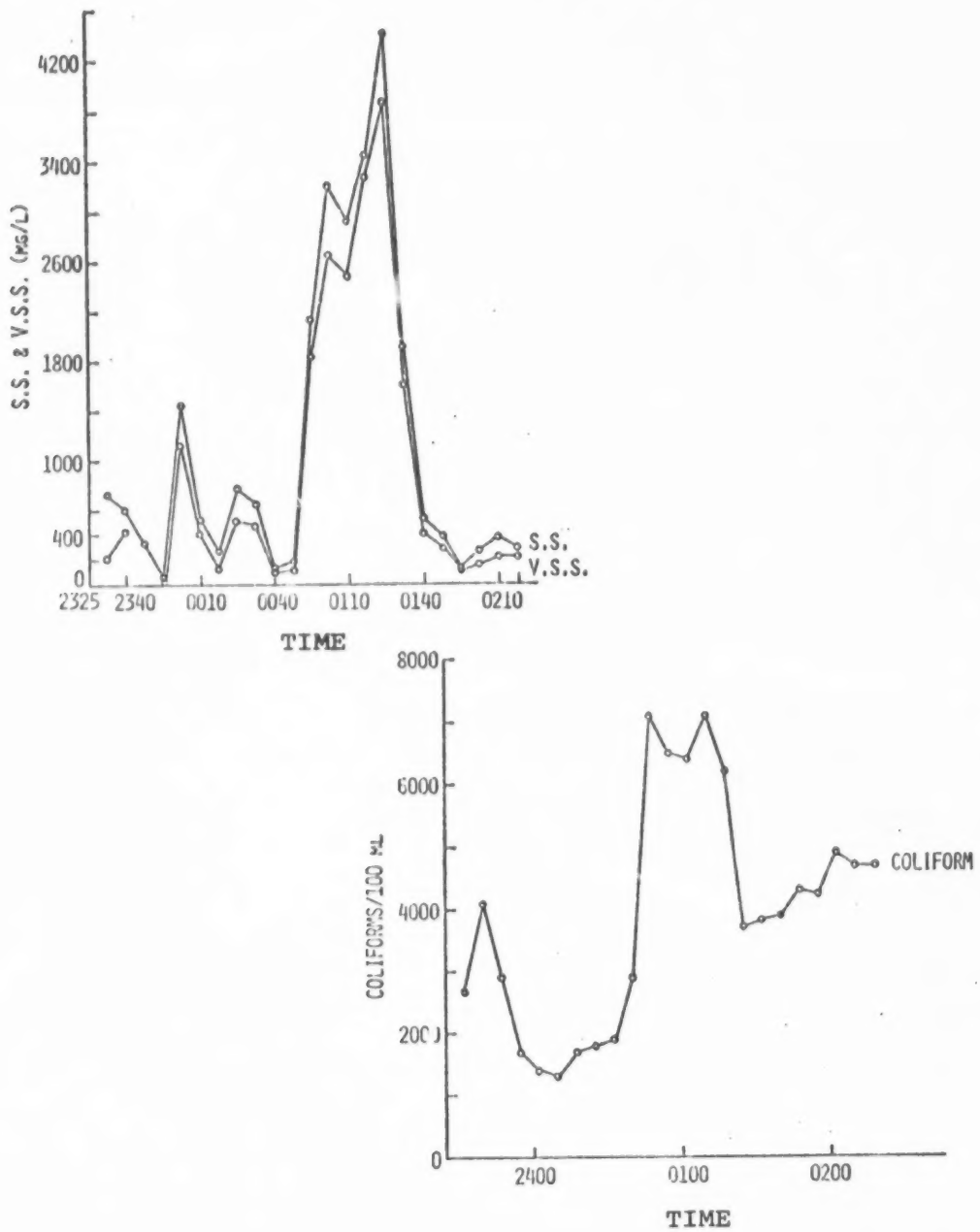


Figure 6-203 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 24 & 25, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-53 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 25, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD
	Laidlaw Gage	Woodward Gage					
2245	.12	-	17.5	94	68	340	376
2252:30	.06	-	29	212	168	305	424
2300	.30	-	27	541	343	-	-
2307:30	.06	-	27	174	105	290	400
2315	.06	-	27	123	96	260	312
2322:30	.09	-	22	149	100	180	220
2330	.60	-	19	186	126	168	-
2337:30	.60	-	65	209	148	164	-
2345	.17	-	128	89	54	169	-
2352:30	.24	.12	75	144	106	153	-
2400	.42	.12	49	121	84	135	-
0007:30	.12	.18	52	82	28	148	-
0015	.12	.24	56	84	43	143	-
0022:30	.24	.30	49	64	32	135	-
0030	.12	.24	41	49	36	132	144
0037:30	.17	.24	43	128	68	137	240
0045	.17	.24	45	56	21	146	208
0052:30	.06	.18	41	25	8	153	161
0100	.24	.18	36	44	19	119	196
0107:30	0.00	.24	31	84	29	166	240
0115	.30	.30	27	77	47	116	268
0122:30	.17	0.00	36	29	13	-	-
0130	.30	.48	41	-	-	163	236
0137:30	.06	.12	38	-	-	202	360

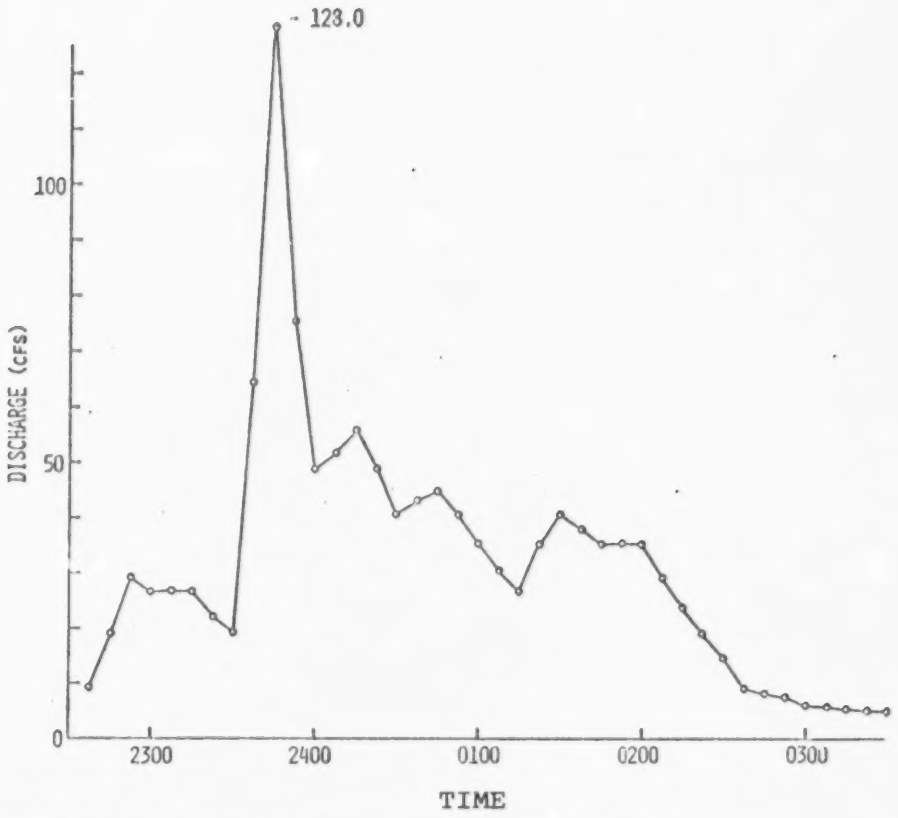


Figure 6-204 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 24 & 25, 1971
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

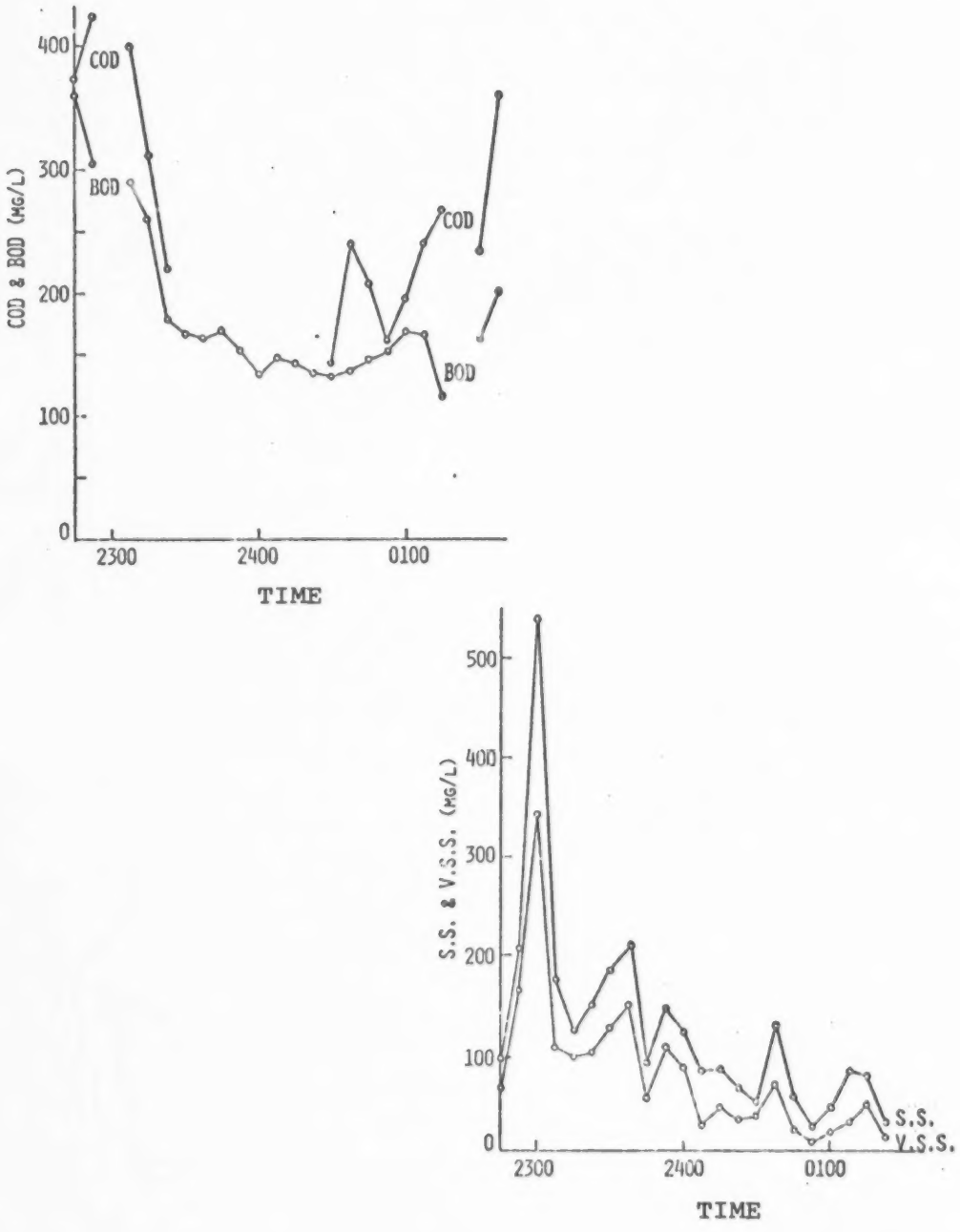


Figure 6-205 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 24 & 25, 1971
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

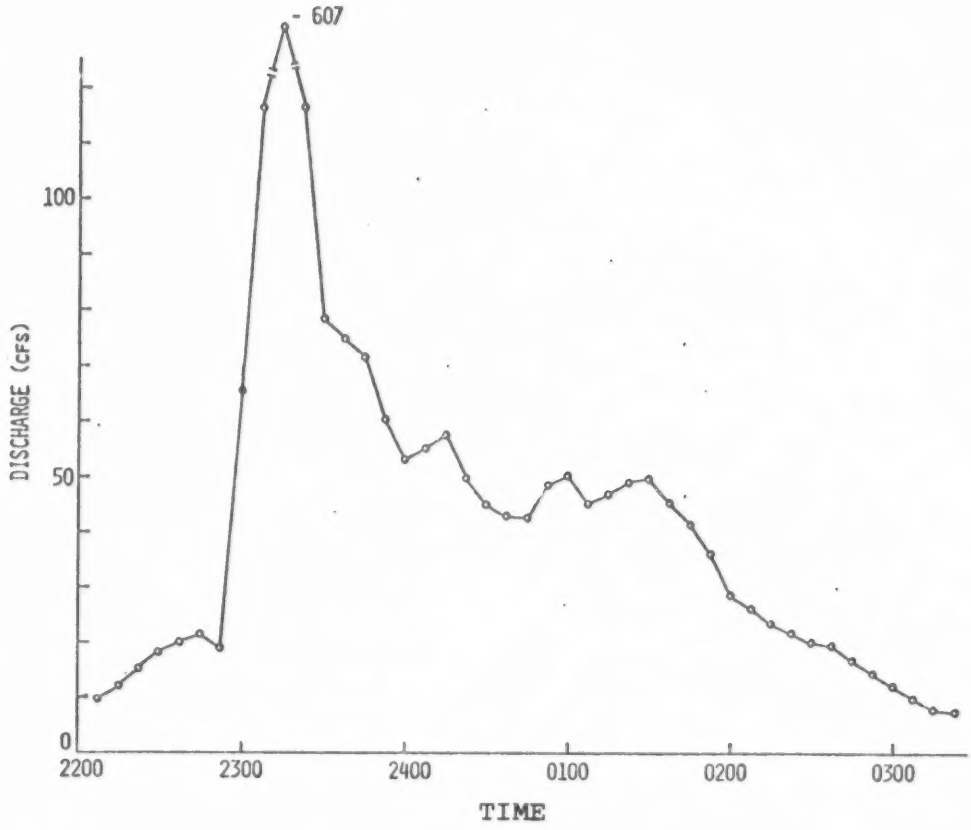


Figure 6-206 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 24 & 25, 1971
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

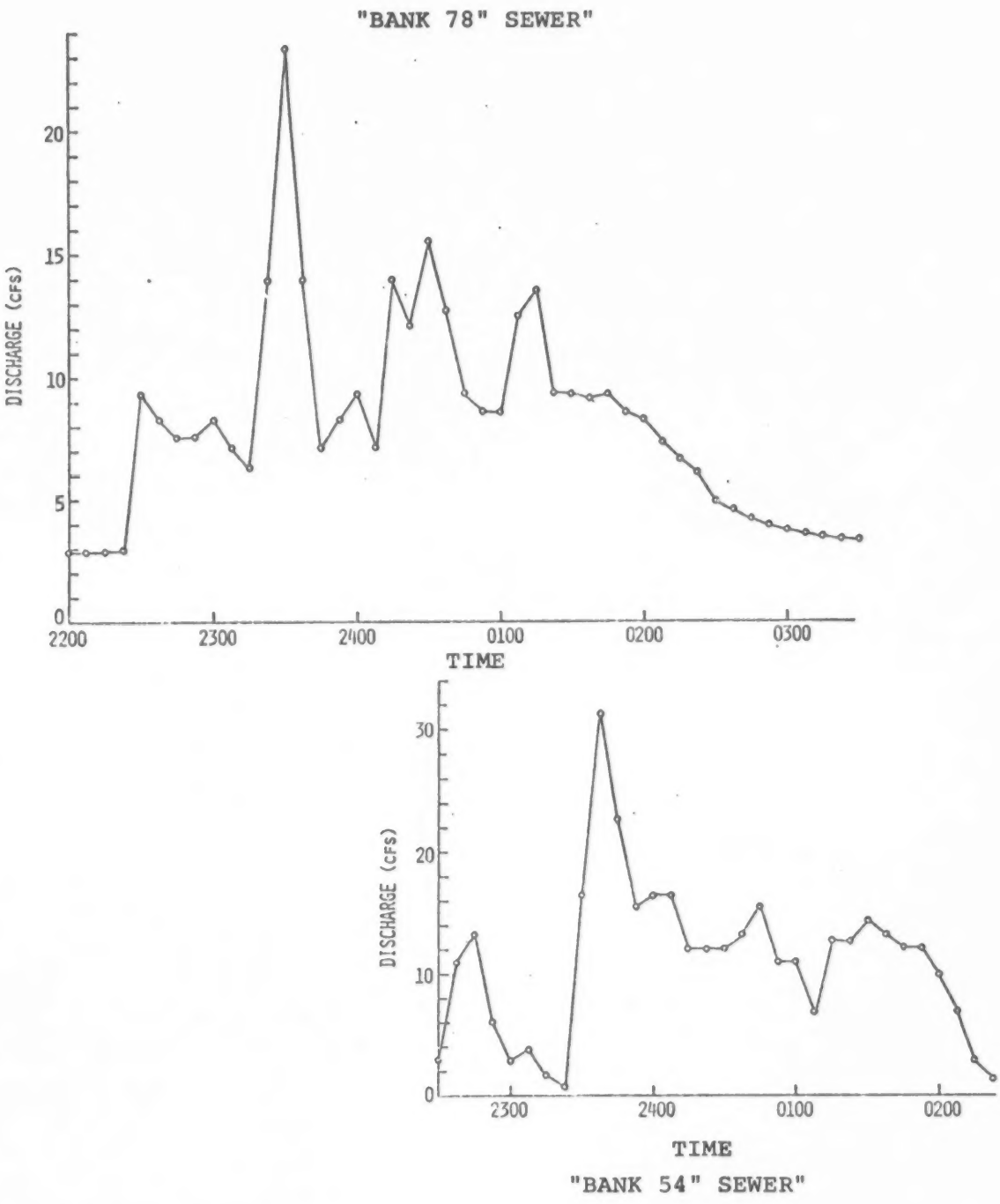


Figure 6-207 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: MAY 24 & 25, 1971

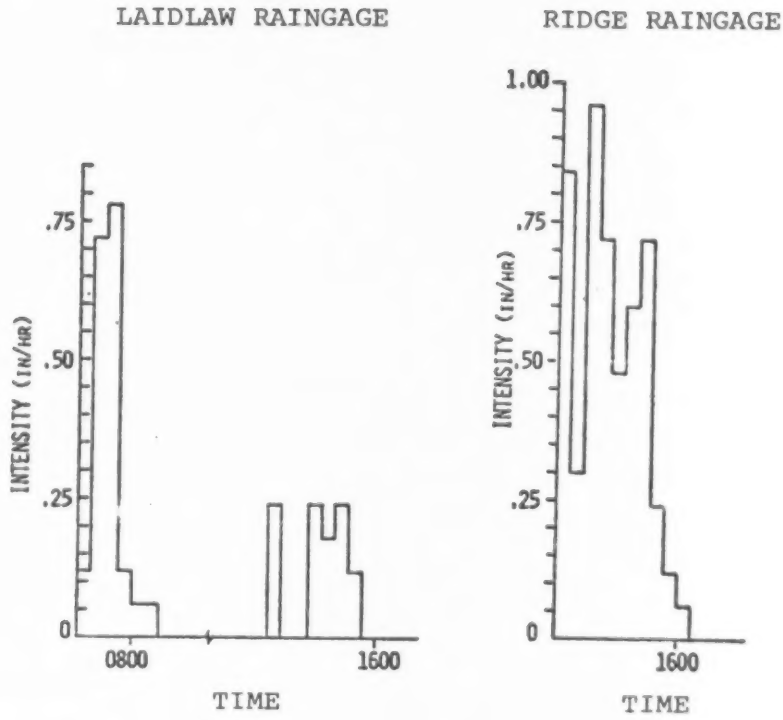


FIGURE 6-208 RAIN OF JUNE 7, 1971
HYETOGRAPHS

Table 6-54 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 7, 1971 MONITORING STATION: Outlet

Time	Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Coliform
1607:30	104	-	-	-	-	-
1615	202	-	-	-	-	-
1622:30	185	459	286	62	148	160,000
1630	153	380	142	22	120	149,000
1637:30	104	-	-	-	-	-

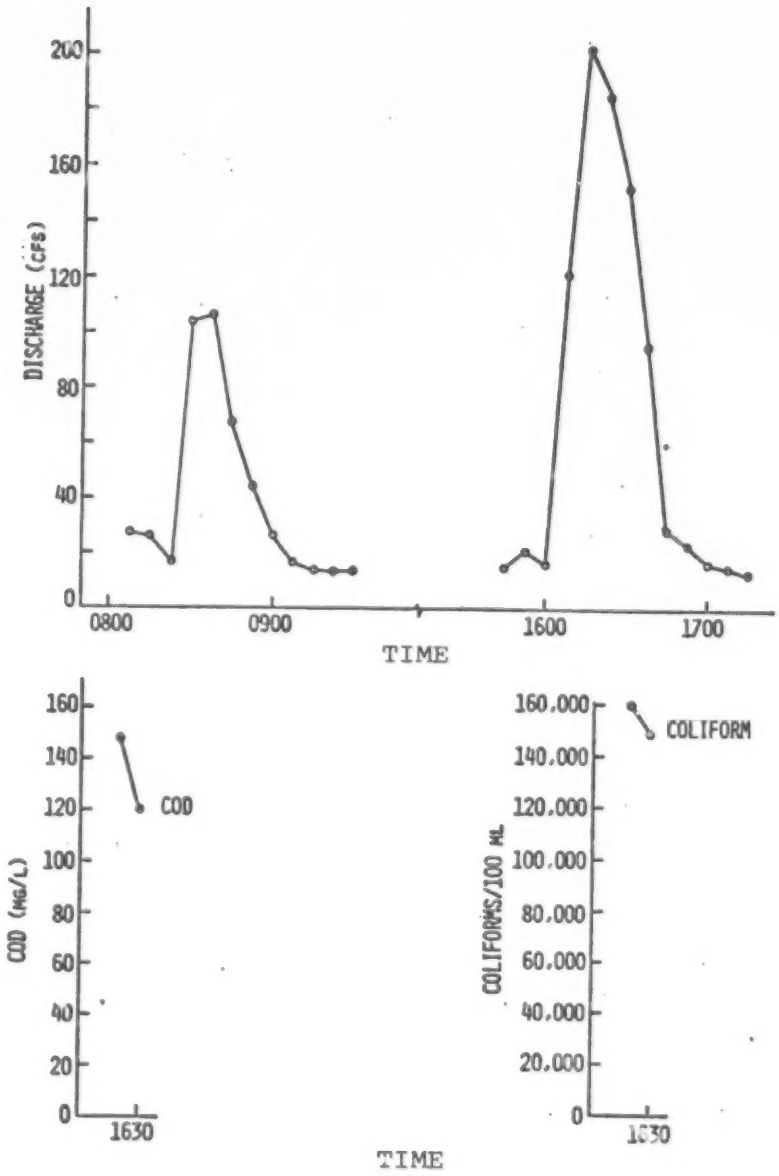


Figure 6-209 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 7, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

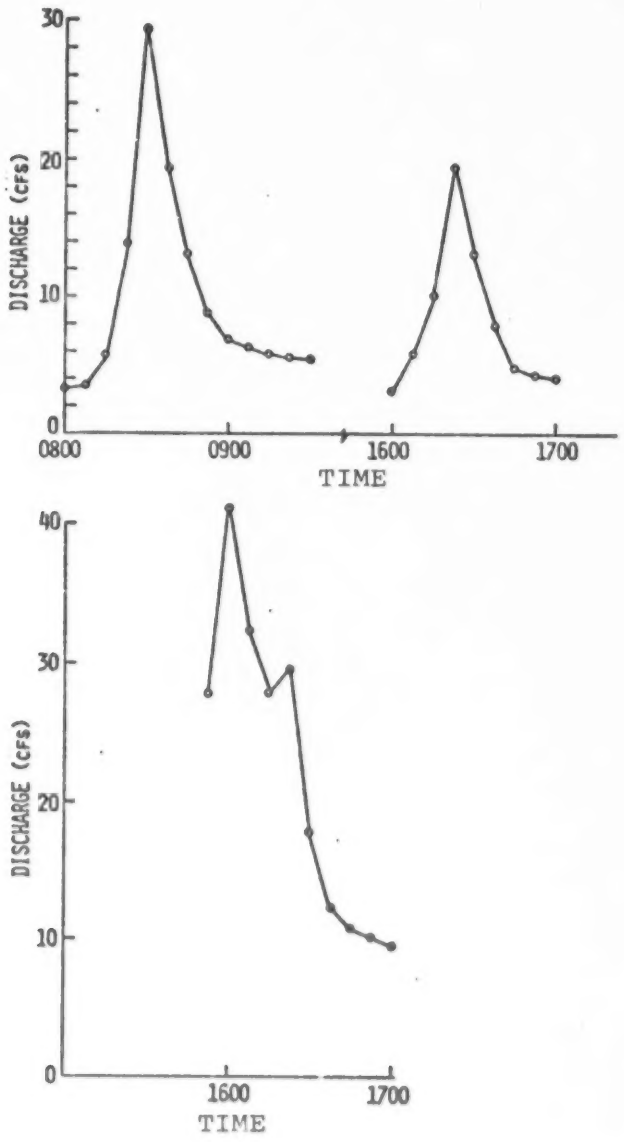


Figure 6-210 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 7, 1971
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

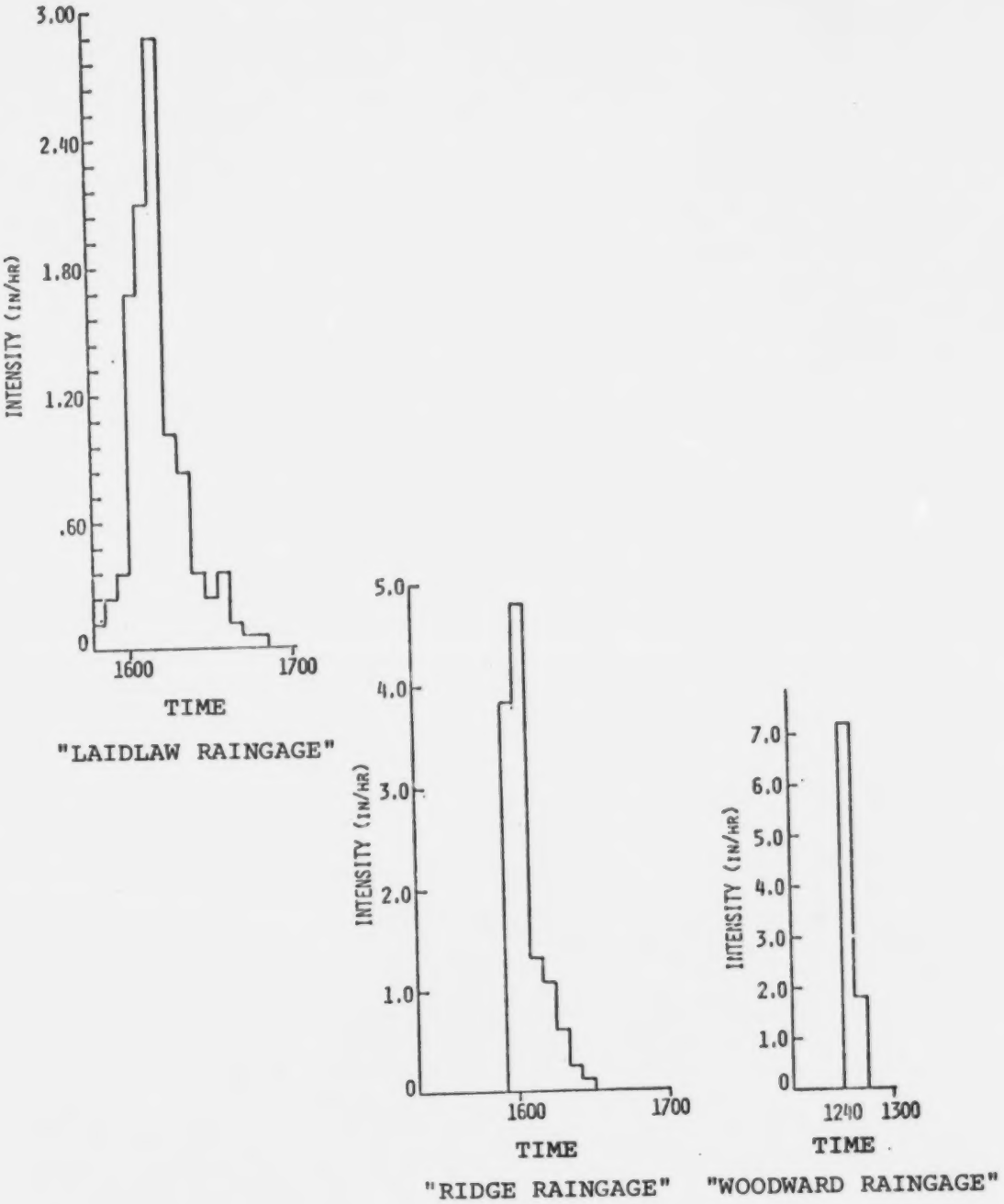


Figure 6-211 RAINFALL OF JUNE 14, 1971
HYETOGRAPHS

Table 6-55 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 14, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Coliform
	Laidlaw Gage	Ridge Gage						
1607:30	2.10	1.33	100	1480	1124	53	244	7100
1615	1.03	.48	1020	-	-	-	-	-
1622:30	.84	.20	895	-	-	-	-	-
1630	.24	.10	768	-	-	-	-	-
1637:30	.36	-	569	-	-	-	-	-
1645	.06	-	470	-	-	-	-	-
1652:30	.06	-	380	-	-	-	-	-
1700	-	-	305	-	-	-	-	-
1707:30	-	-	265	-	-	-	-	-
1715	-	-	205	-	-	-	-	-
1722:30	-	-	172	-	-	-	-	-
1730	-	-	134	-	-	-	-	-
1737:30	-	-	52	725	516	28	348	160,000
1745	-	-	32	749	541	40	428	140,000
1752:30	-	-	26	781	576	28	456	129,000
1800	-	-	22	523	388	120	388	132,000
1807:30	-	-	21	265	203	102	268	148,000
1815	-	-	17	175	116	86	184	162,000
1822:30	-	-	16	144	98	37	188	150,000
1830	-	-	13	68	34	49	268	192,000
1837:30	-	-	11.7	203	161	23	204	210,000
1845	-	-	-	326	178	31	204	216,000
1852:30	-	-	-	186	110	27	204	242,000
1900	-	-	-	118	100	17	180	212,000

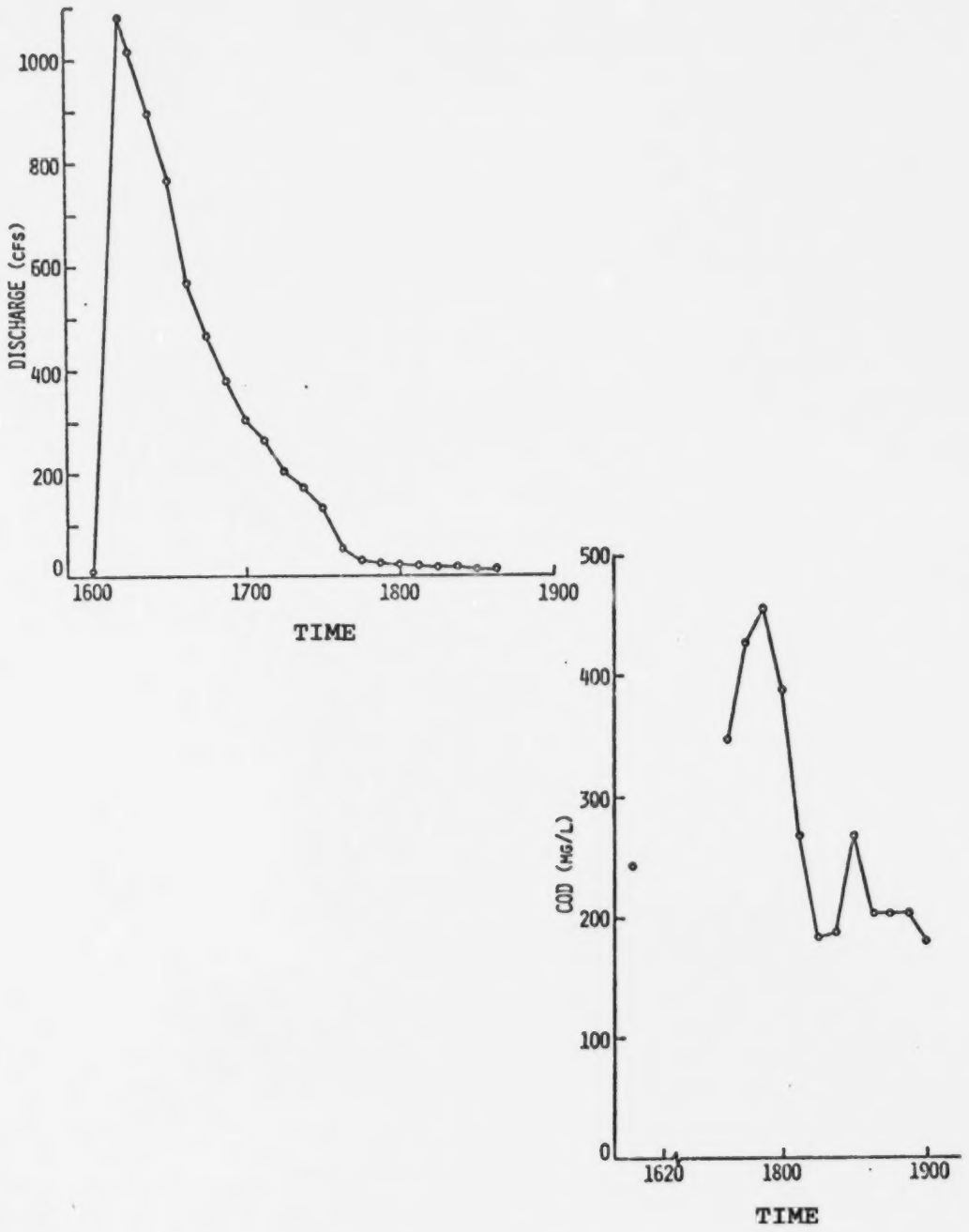


Figure 6-212 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 14, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

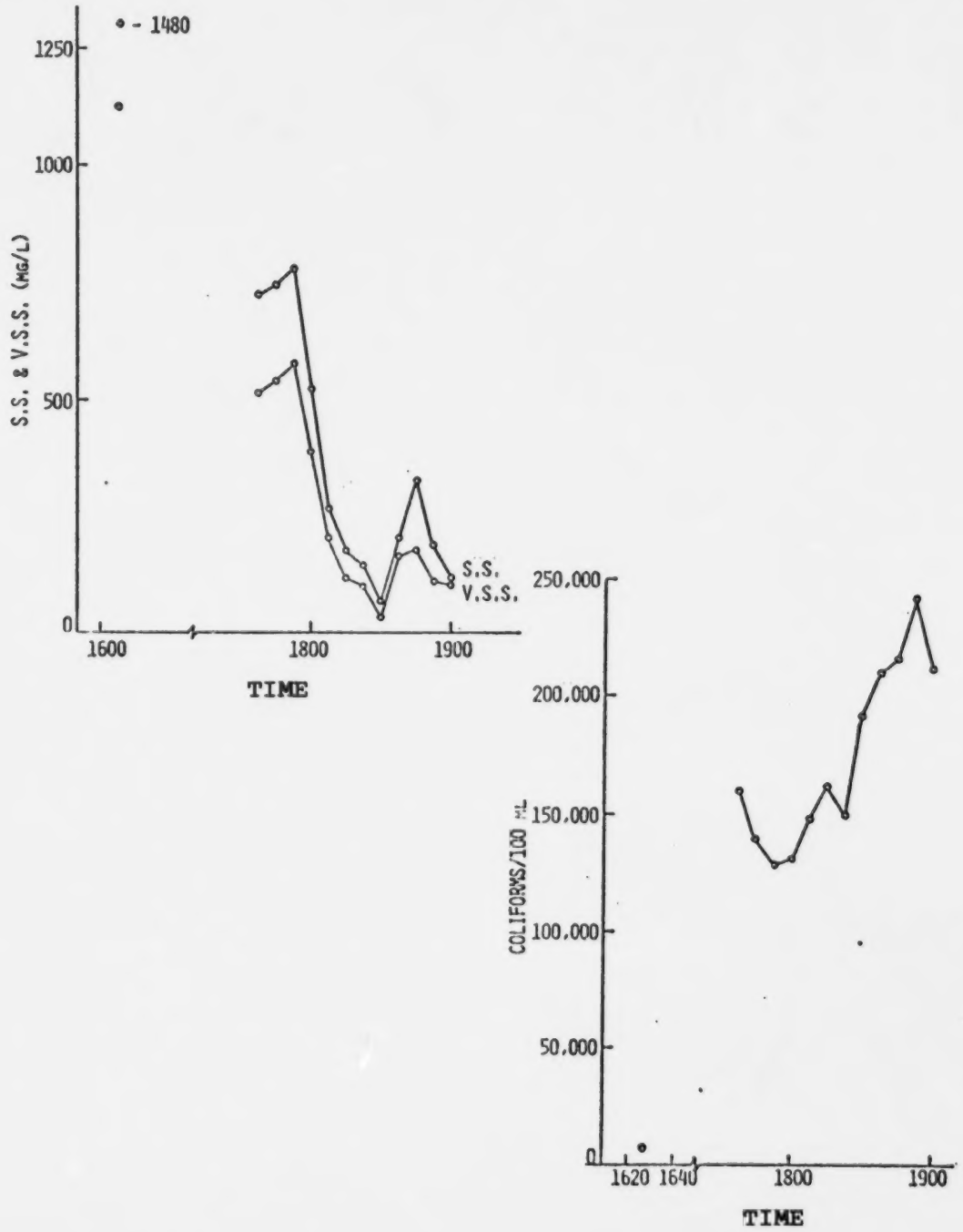


Figure 6-213 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 14, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-56 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 14, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	COD
	Laidlaw Gage	Ridge Gage					
1615	1.03	.48	10	-	833	478	624
1622:30	.84	.20	348	-	311	159	169
1630	.24	.10	274	-	-	-	72
1637:30	.36	-	162	-	-	-	76
1645	.06	-	78	496	393	206	52
1652:30	.06	-	50	372	234	134	8
1700	-	-	28	289	145	96	32
1707:30	-	-	18	352	103	75	8
1715	-	-	14	172	50	21	24
1722:30	-	-	10	189	52	27	8
1730	-	-	8	192	72	31	68
1737:30	-	-	-	195	78	30	28
1745	-	-	-	175	34	10	76
1752:30	-	-	-	170	84	24	144
1800	-	-	-	150	51	29	228
1807:30	-	-	-	-	189	106	52
1815	-	-	-	-	96	80	8
1822:30	-	-	-	-	101	70	8
1830	-	-	-	-	44	21	12
1837:30	-	-	-	71	32	18	40
1845	-	-	-	83	75	39	32
1852:30	-	-	-	-	28	20	12
1900	-	-	-	-	56	21	44
1907:30	-	-	-	-	33	16	28

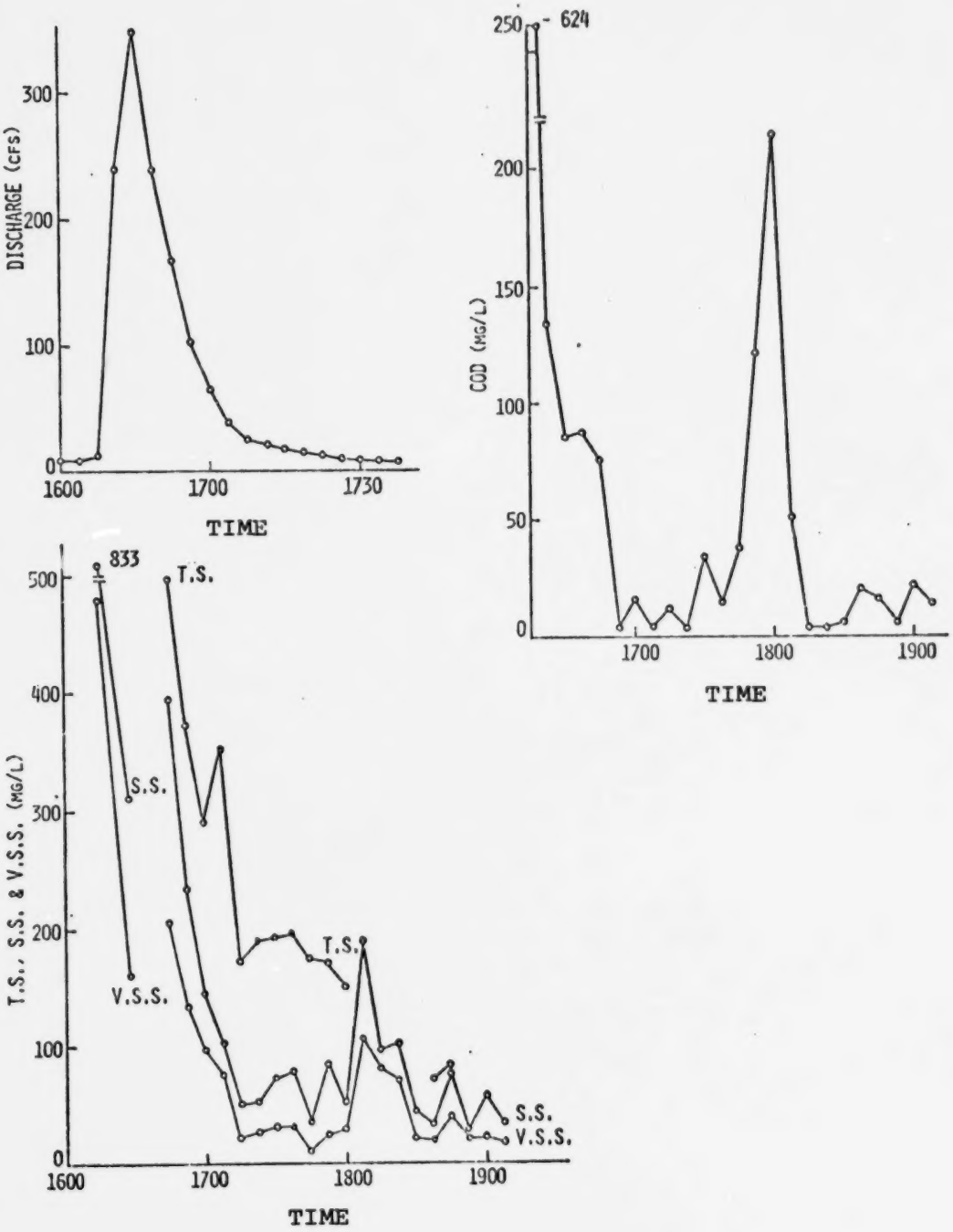


Figure 6-214 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 14, 1971
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

Table 6-57 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 14, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Volatile Sus. Solids	Suspended Solids (mg/l)	BOD	COD
	Laidlaw Gage	Ridge Gage						
1615	1.02	.68	13	-	-	-	103	616
1622:30	.84	.20	240	-	-	-	-	-
1630	.24	.10	348	-	-	-	90	716
1637:30	.36	-	240	-	-	-	-	-
1645	.06	-	168	-	188	327	65	688
1652:30	.06	-	102	-	-	-	77	300
1700	-	-	65	-	324	438	72	332
1707:30	-	-	38	-	-	-	69	208
1715	-	-	25	527	267	345	47	260
1722:30	-	-	21	728	385	592	18	332
1730	-	-	18	-	-	-	35	388
1737:30	-	-	14	-	-	-	-	-
1745	-	-	12	-	-	-	-	-
1752:30	-	-	10	-	-	-	-	-
1800	-	-	9	-	-	-	-	-
1807:30	-	-	8	-	-	-	-	-
1815	-	-	7	-	-	-	-	-
1822:30	-	-	-	189	100	185	41	384
1830	-	-	-	327	126	246	61	256

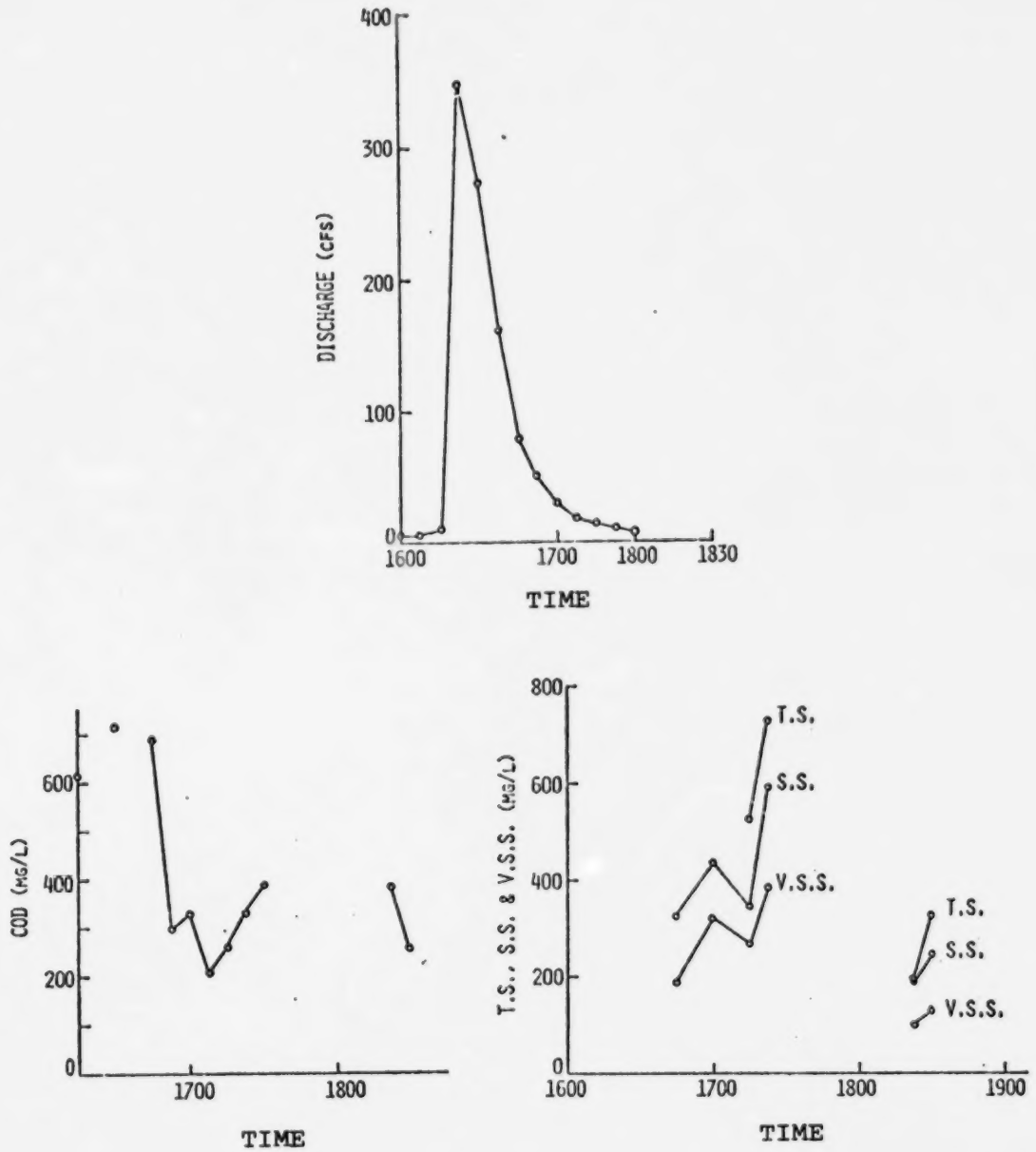


Figure 6-215 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 14, 1971
MONITORING STATION: LONGVIEW -
11' x 9' SEWER

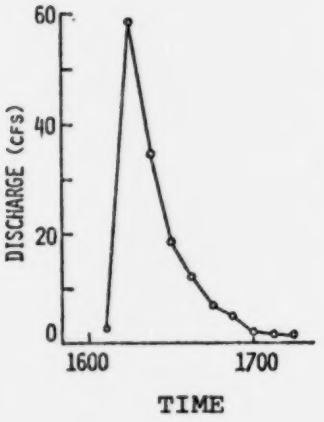
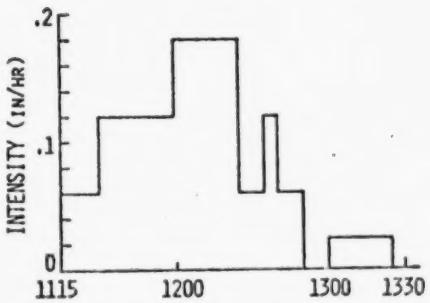
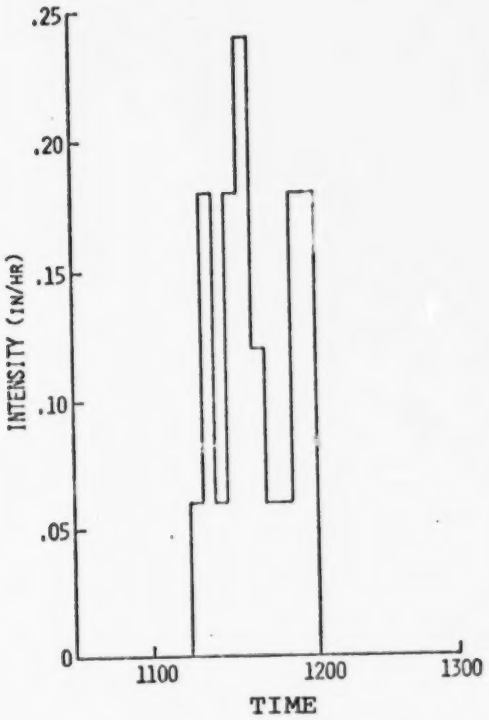


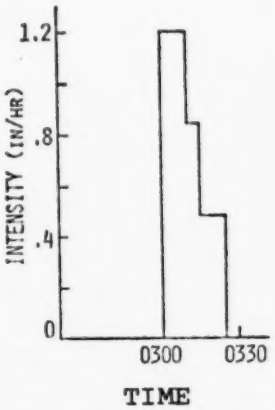
Figure 6-216 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 14, 1971
MONITORING STATION: BANK - 78" SEWER



"LAIDLAW RAINGAGE"

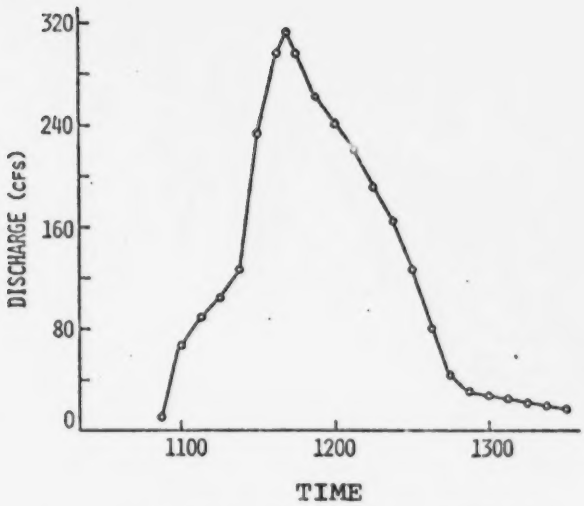


"RIDGE RAINGAGE"

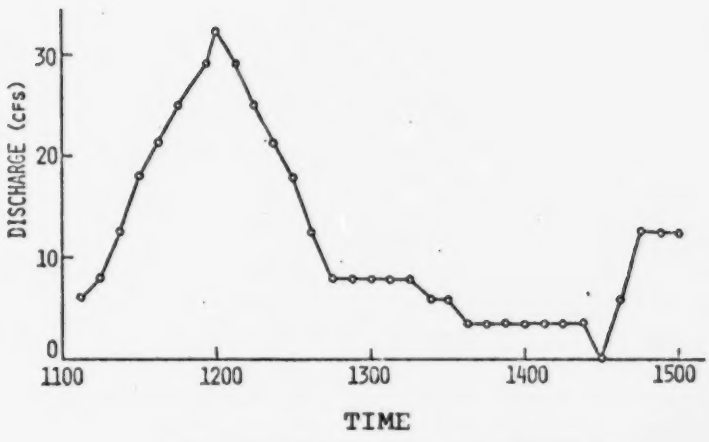


"WOODWARD RAINGAGE"

Figure 6-217 RAINFALL OF JUNE 15, 1971
HYETOGRAPH



"OUTLET 10' x 15' SEWER"



"LONGVIEW 11' x 9' SEWER"

Figure 6-218 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 15, 1971

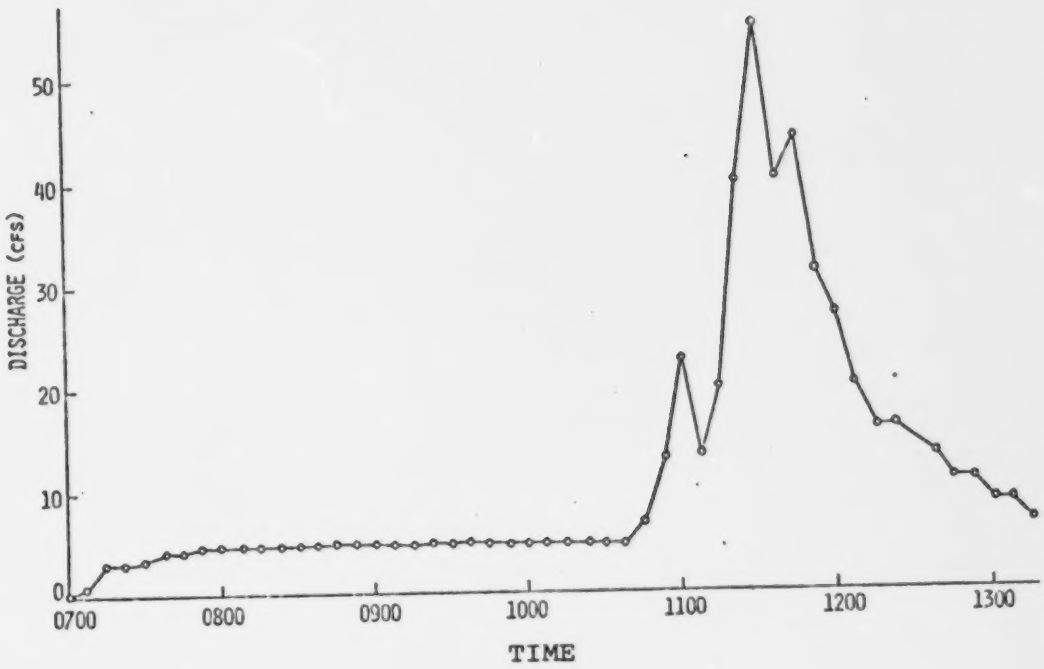


Figure 6-219 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 15, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

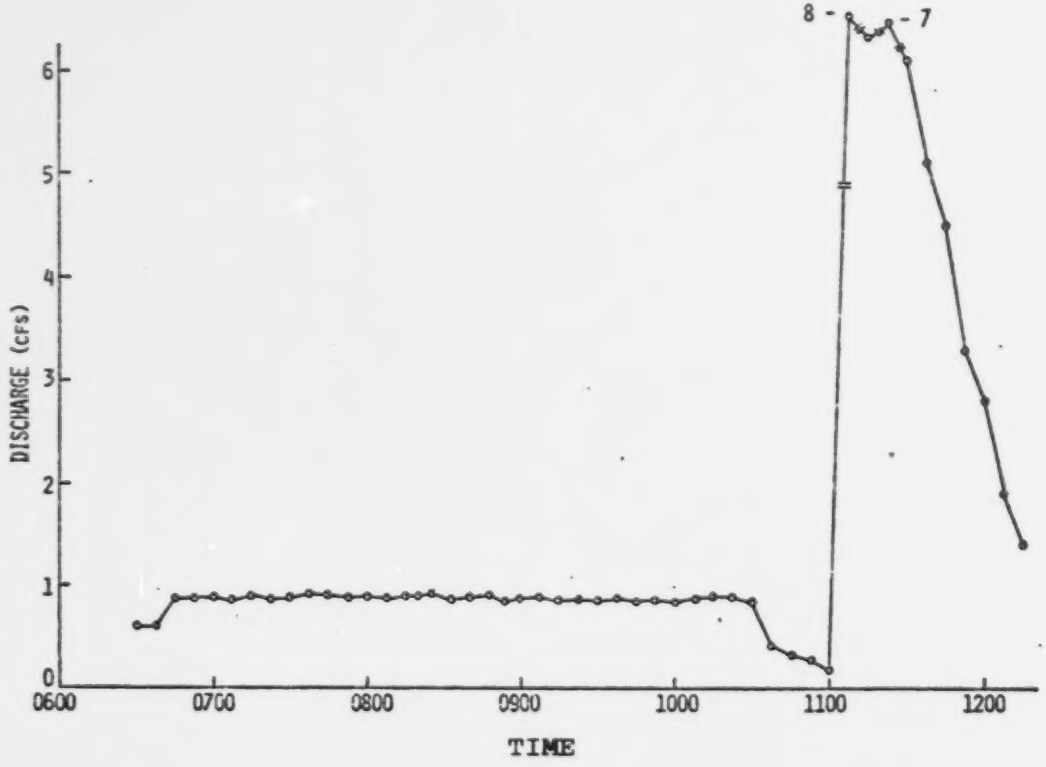


Figure 6-220 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 15, 1971
MONITORING STATION: BANK - 78" SEWER

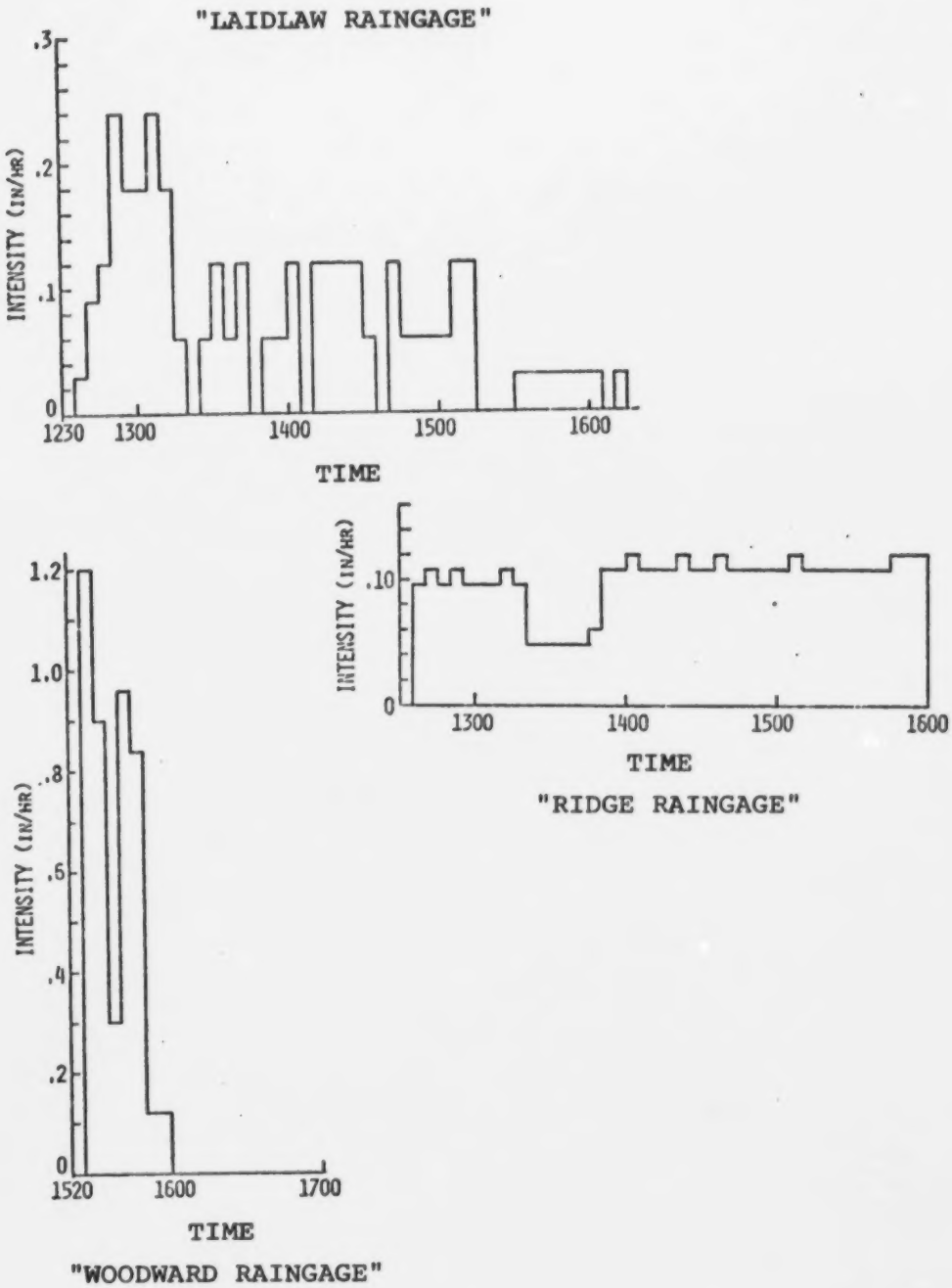


Figure 6-221 RAINFALL OF JUNE 19, 1971
HYETOGRAPHS

Table 6-58 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 19, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Coliform
	Laidlaw Gage	Ridge Gage							
1315	.06	.086	140	290	167	192	560	6.85	-
1322:30	-	.048	166	375	301	223	480	6.35	-
1330	.12	.048	142	408	375	143	450	6.15	4400
1337:30	.06	.048	133	258	168	119	276	6.62	4000
1345	.12	.06	109	196	121	97	254	6.30	4400
1352:30	.06	.109	102	179	118	71	423	7.05	4300
1400	.12	.12	126	150	96	80	222	6.68	4100
1407:30	-	.109	150	132	75	71	230	6.68	4200
1415	.12	.109	142	134	78	66	189	6.95	4800
1422:30	.12	.12	125	108	76	71	226	6.75	5600
1430	.06	.109	102	198	101	75	222	6.60	5400
1437:30	-	.12	80.7	87	50	66	192	7.10	5800
1445	.06	.109	68	119	48	46	189	6.80	5900
1452:30	.06	.109	62	85	35	50	154	6.60	5700
1500	.06	.12	55.5	79	38	66	154	6.97	5800
1507:30	.12	.109	44.5	79	39	38	150	6.89	5100
1515	-	.109	36.5	82	42	48	165	6.95	6200
1522:30	-	.109	30	68	31	61	158	6.60	6400
1530	.03	.109	25.5	78	29	8	165	6.75	6800
1537:30	.03	.12	21.5	76	27	45	165	6.50	6900
1545	.03	.12	-	64	28	40	139	6.65	6800
1552:30	.03	.12	-	55	39	35	131	6.75	6200
1600	.03	.12	-	78	45	42	110	6.95	6400
1607:30	-	-	-	69	50	43	150	7.18	6200

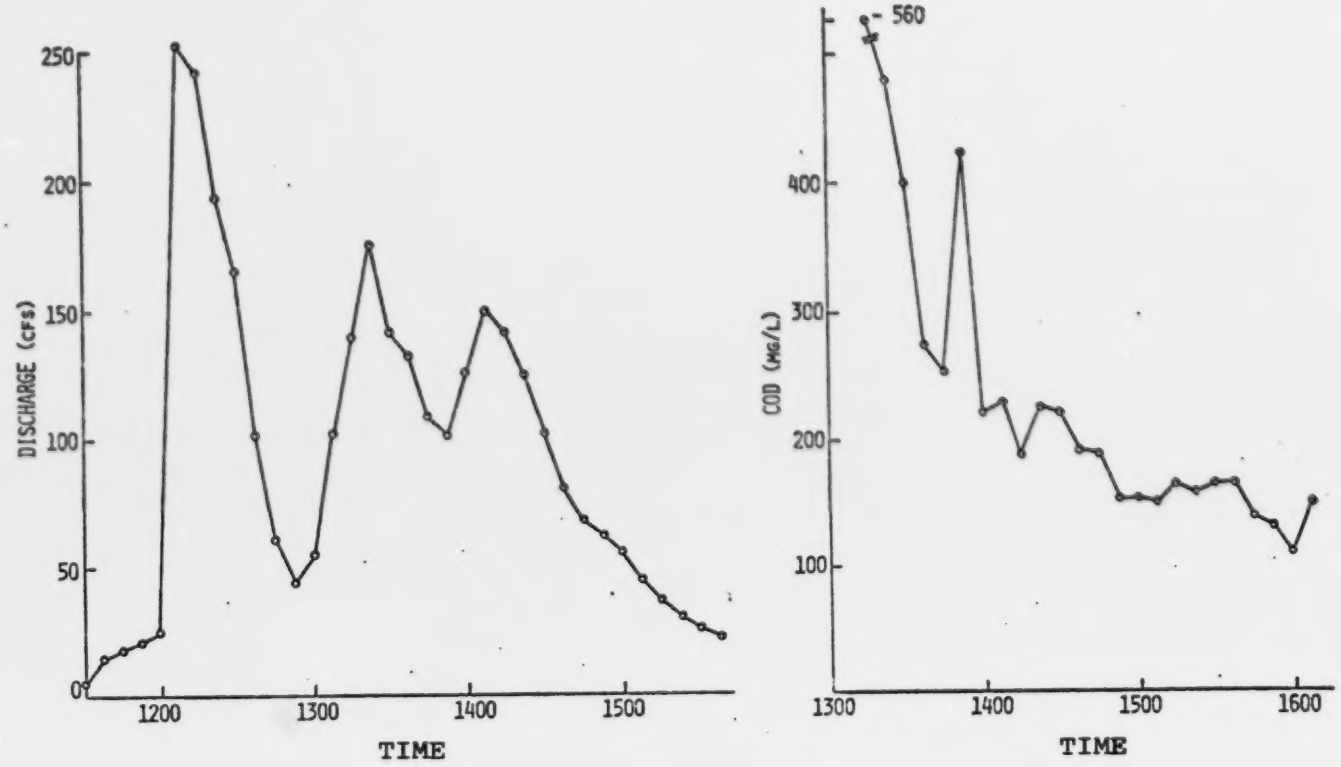


Figure 6-222 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 19, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

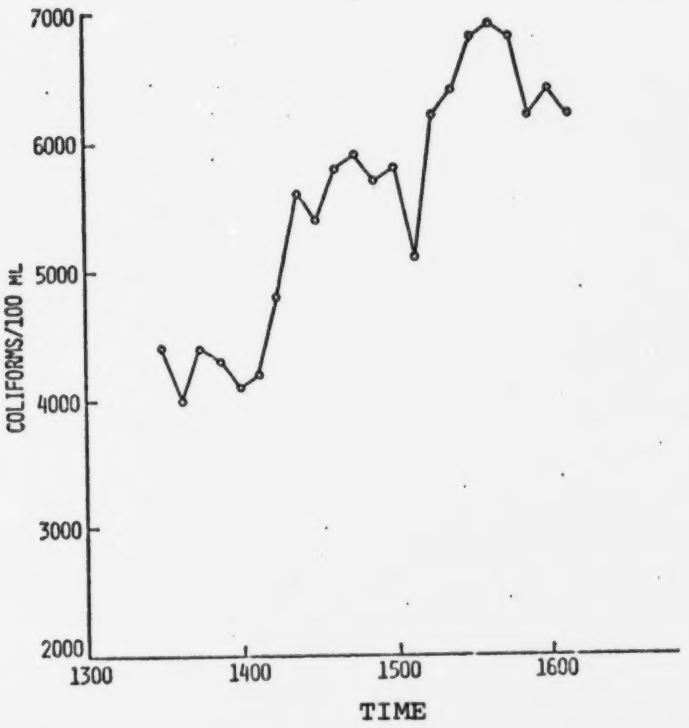


Figure 6-223 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 19, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

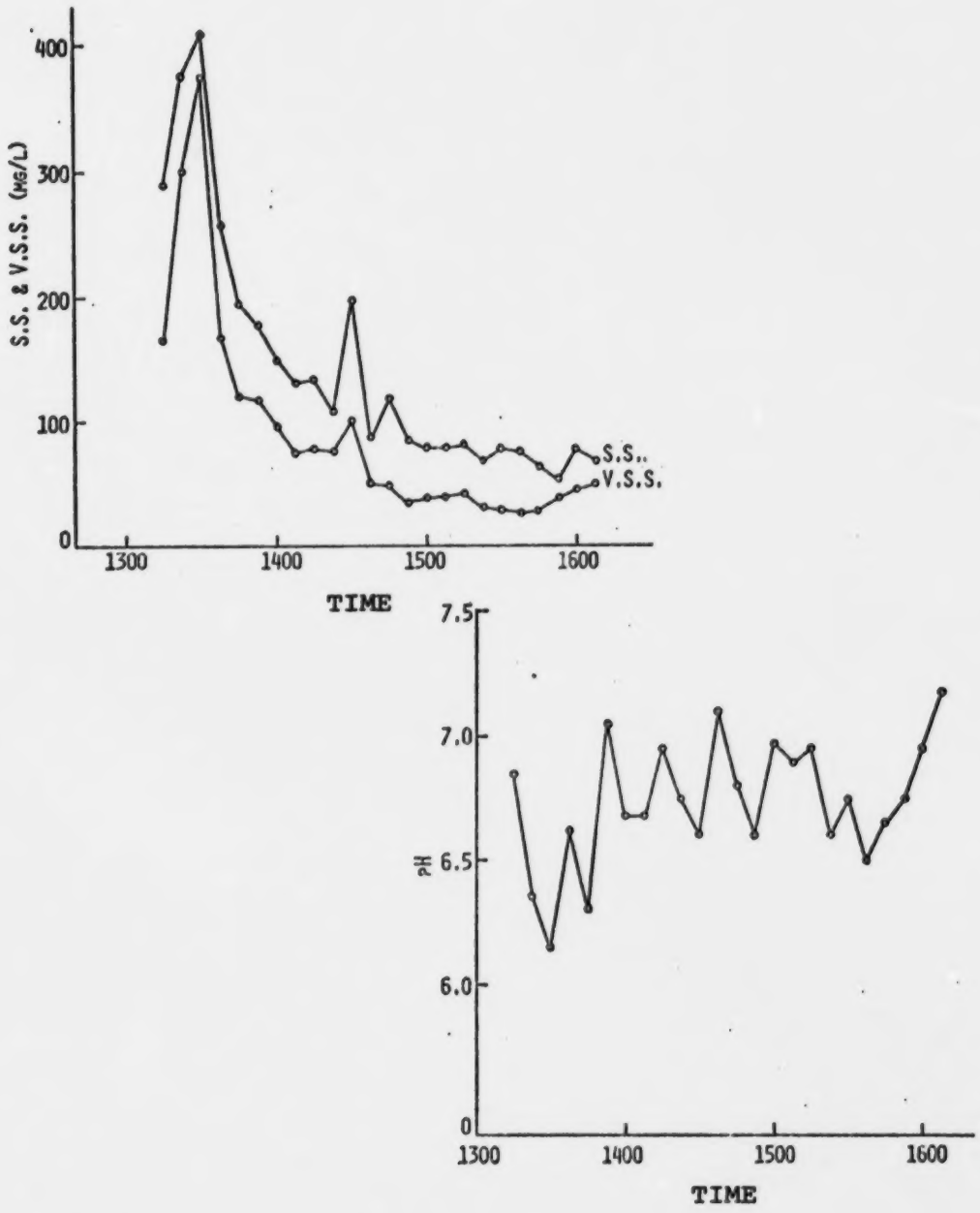


Figure 6-224 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 19, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-59 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 19, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	COD	pH
	Laidlaw Gage	Ridge Gage						
1300	.18	.086	27	-	272	86	489	6.85
1307:30	.26	.086	23	-	284	91	237	6.35
1315	.06	.086	20	-	296	99	184	6.15
1322:30	-	.048	18	486	345	151	87	6.62
1330	.12	.048	11	399	381	148	84	6.30
1337:30	.06	.048	18	576	396	171	87	7.05
1345	.12	.06	20	621	399	192	90	6.68
1352:30	.06	.109	21	891	289	132	79	6.68
1400	.12	.12	23	716	232	148	75	6.95
1407:30	-	.109	21	741	352	121	60	6.75
1415	.12	.109	19	524	240	106	83	6.60
1422:30	.12	.12	13	576	235	148	46	7.10
1430	.06	.109	11	510	231	129	56	6.80
1437:30	-	.12	13	489	206	105	46	6.60
1445	.06	.109	18	428	221	120	46	6.97
1452:30	.06	.109	19	475	238	141	42	6.89
1500	.06	.109	20	406	189	132	57	6.95
1507:30	.12	.12	19	398	176	101	79	6.60
1515	-	.104	18	386	111	76	69	6.75
1522:30	-	.109	13	304	105	28	57	6.50
1530	.03	.109	11	371	171	49	54	6.65
1537:30	.03	.109	13	408	180	96	65	6.75
1545	.03	.12	9	388	76	34	69	6.95
1552:30	.03	.12	9	352	74	27	65	7.10

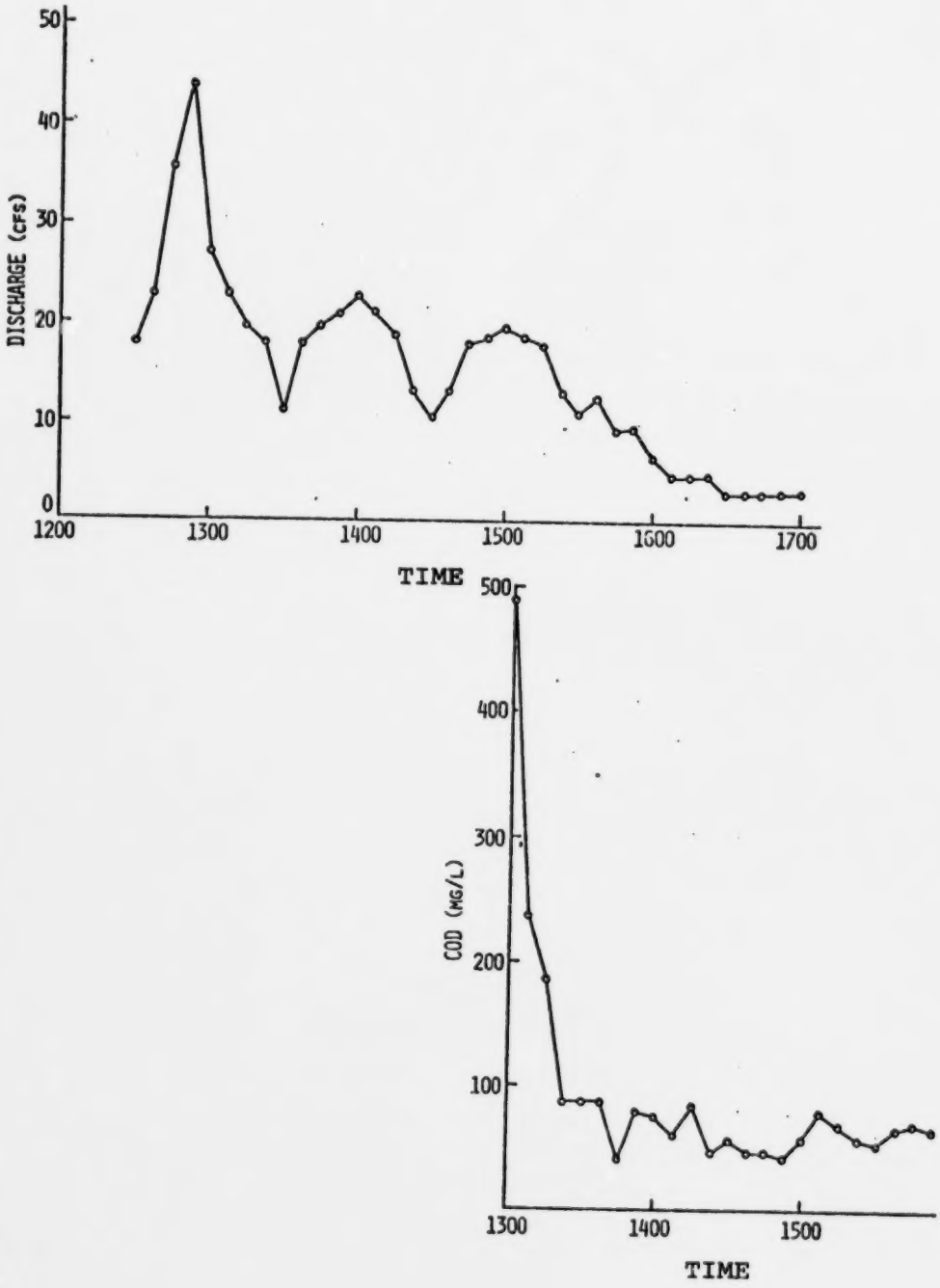


Figure 6-225 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 19, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

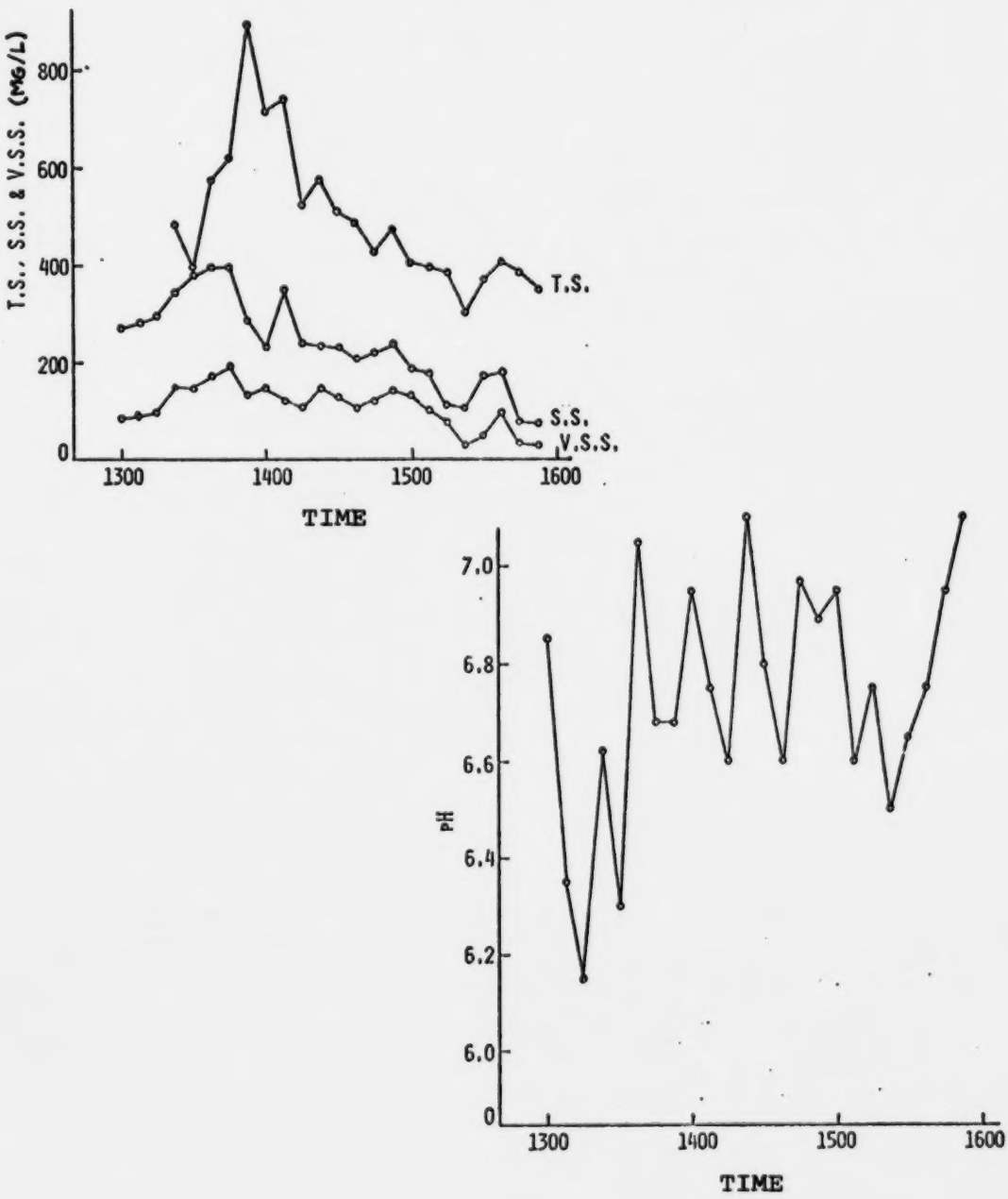
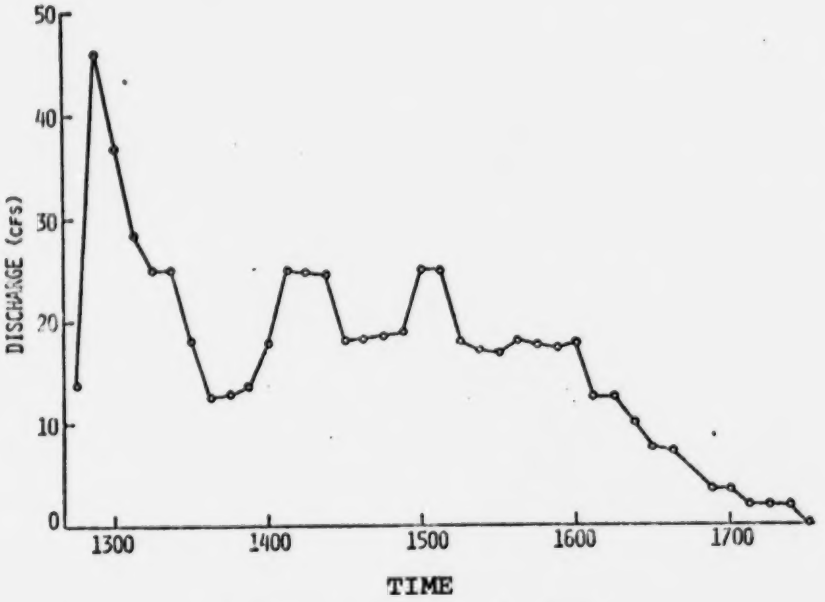
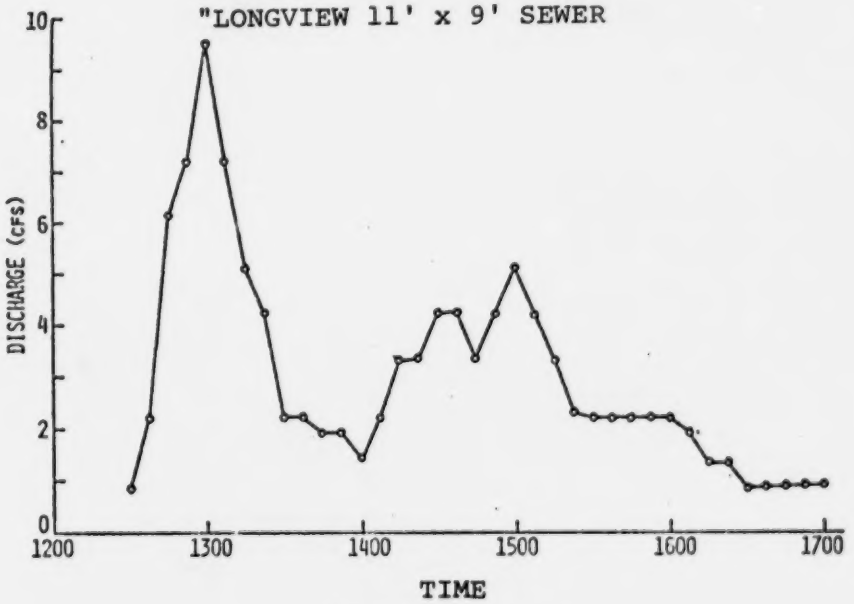


Figure 6-226 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 19, 1971
MONITORING STATION: LONGVIEW -
12' x 9' SEWER

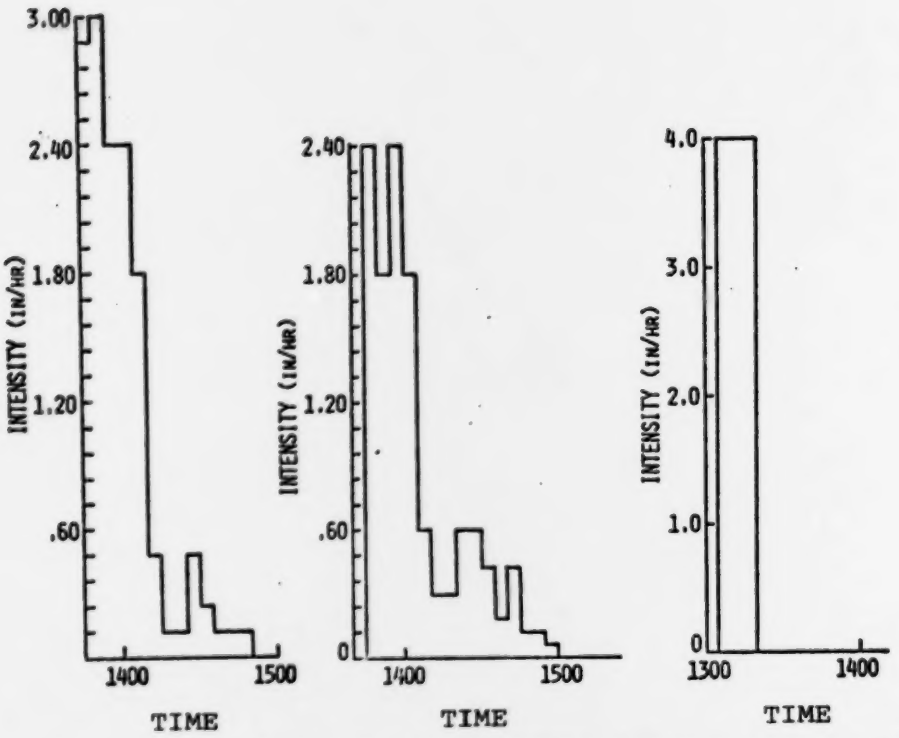


"LONGVIEW 11' x 9' SEWER



"BANK 78" SEWER

Figure 6-227 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 19, 1971



"LAIDLAW RAINGAGE" "RIDGE RAINGAGE" "WOODWARD RAINGAGE"

Figure 6-228 RAINFALL OF JUNE 28, 1971
HYETOGRAPHS

Table 6-60 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 28, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage							
1307:30	-	4.0	-	-	-	-	-	-	-	-
1315	-	4.0	-	691	2446	1684	105	744	7.28	14.5
1322:30	-	-	-	1215	8283	5381	107	516	6.65	2.5
1330	-	-	-	1111	2625	1834	102	352	6.50	5.5
1337:30	-	-	-	917	1669	1064	81	106	6.60	0.5
1345	2.88	-	2.40	690	1573	1135	88	136	6.55	0.5
1352:30	3.00	-	1.80	490	1212	1050	100	120	7.25	0.5
1400	2.40	-	1.80	398	808	748	78	108	6.89	1.5
1407:30	1.80	-	.60	347	745	452	50	124	6.89	0.5
1415	.12	-	.30	314	608	396	48	164	6.75	4.0
1422:30	.12	-	.60	272	312	258	26	116	6.82	3.0
1430	.24	-	.42	233	307	199	25	236	7.20	-
1437:30	.12	-	.18	194	-	-	28	205	7.19	4.5
1445	.12	-	.12	150	-	-	55	180	7.38	6.0
1452:30	-	-	.12	102	-	-	97	198	6.89	7.5
1500	-	-	-	51	-	-	61	216	6.90	6.0
1507:30	-	-	-	29	-	-	-	-	-	-
1515	-	-	-	26	-	-	-	-	-	-
1522:30	-	-	-	23	-	-	-	-	-	-
1530	-	-	-	21	-	-	-	-	-	-
1537:30	-	-	-	19	-	-	-	-	-	-
1545	-	-	-	17	-	-	-	-	-	-
1552:30	-	-	-	15	-	-	-	-	-	-
1600	-	-	-	13	-	-	-	-	-	-

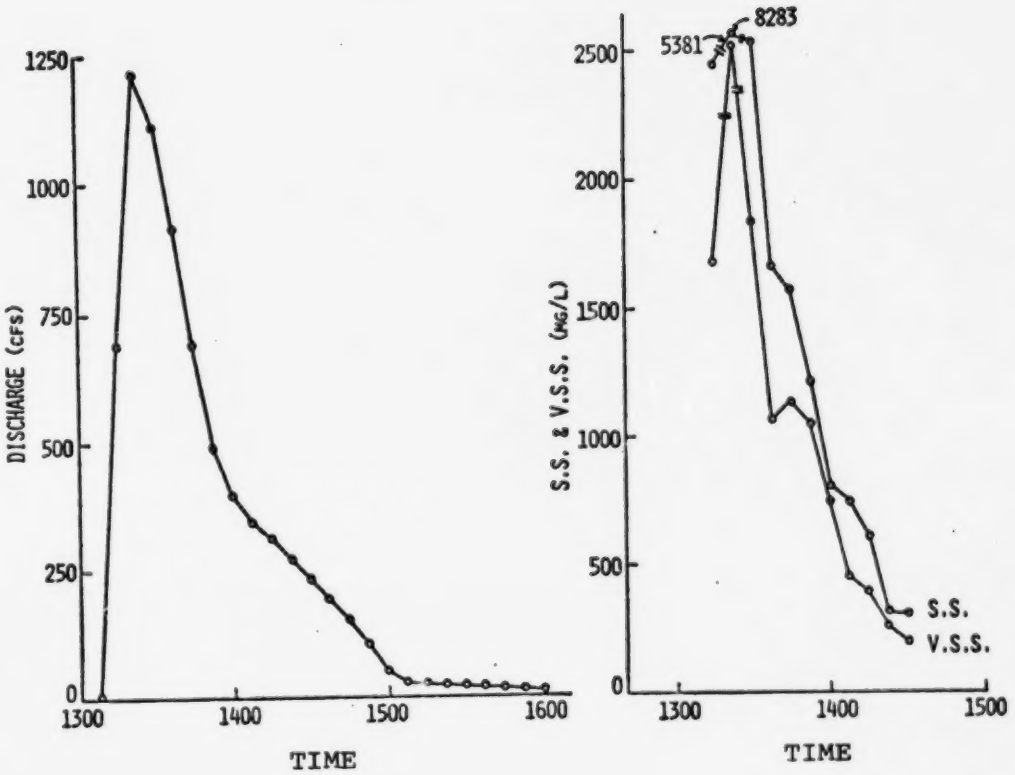


Figure 6-229 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

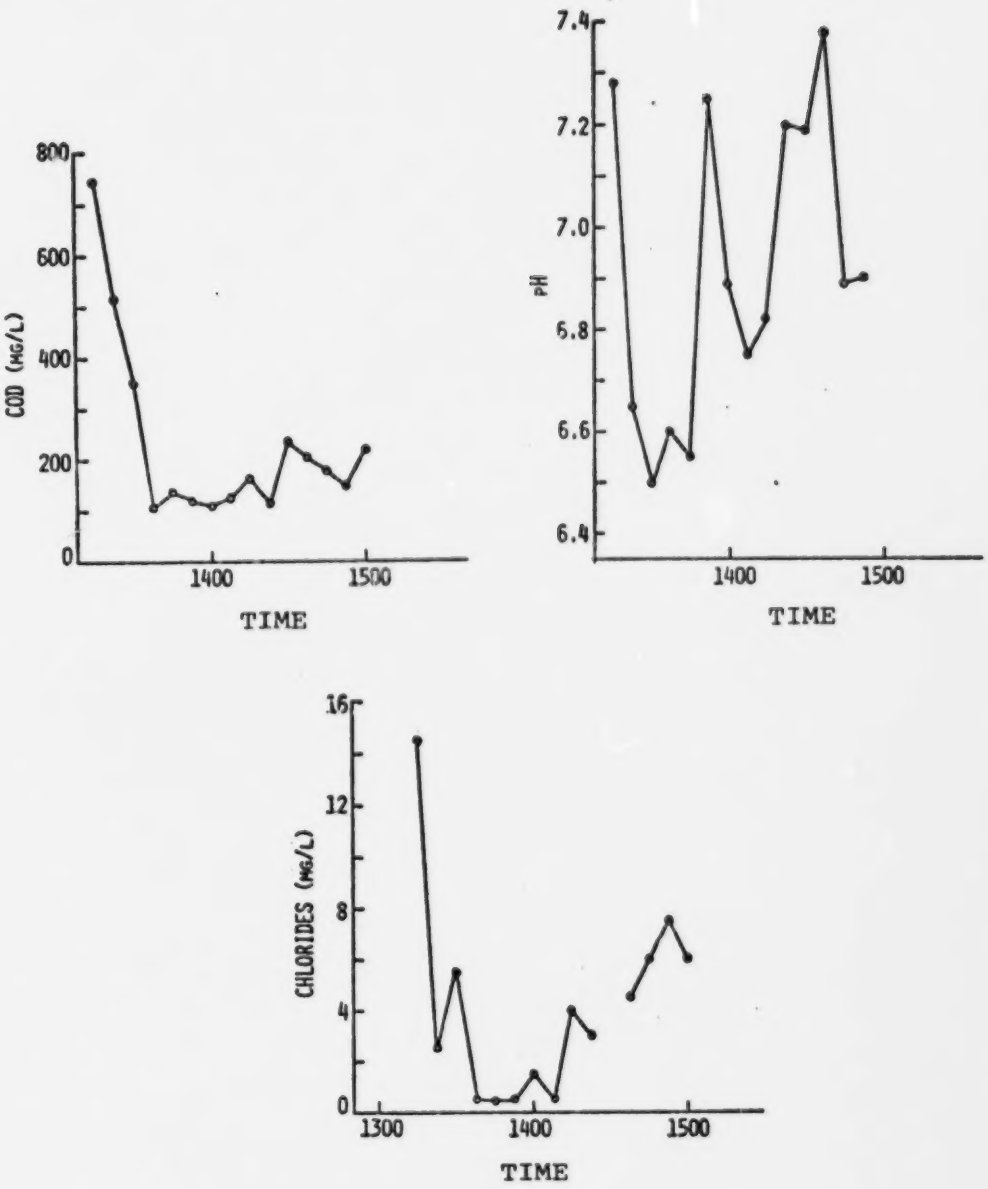


Figure 6-230 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-61 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 28, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr) Laidlaw Gage	Woodward Gage	Ridge Gage	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
1300	-	4.0	-	4.4	-	-	-	260	540	6.45	1.5
1307:30	-	4.0	-	4.4	-	-	-	25	180	7.40	-
1315	-	-	-	4.4	-	-	-	-	-	-	-
1322:30	-	-	-	4.4	-	-	-	55	432	7.15	1.0
1330	-	-	-	238	-	-	-	-	-	-	1.0
1337:30	-	-	-	409	-	-	-	-	-	-	-
1345	2.88	-	2.40	583	-	65	46	104	392	6.25	2.5
1352:30	3.00	-	1.80	166	-	-	-	8	128	7.05	3.5
1400	2.40	-	1.80	71	-	-	-	8	-	-	3.0
1407:30	1.80	-	.60	55	-	-	-	-	-	-	-
1415	.12	-	.30	36	-	-	-	-	-	-	-
1422:30	.12	-	.60	31	891	456	307	8	108	6.9	-
1430	.24	-	.42	23	-	-	-	6	128	-	-
1437:30	.12	-	.18	18	-	205	145	9	76	6.55	-
1445	.12	-	.12	16	-	-	-	13	73	-	3.0
1452:30	-	-	.12	13	-	-	-	-	-	-	3.5
1500	-	-	-	11	-	-	-	8	156	6.95	4.0
1507:30	-	-	-	9	389	145	76	38	118	7.25	-
1515	-	-	-	9	-	-	-	7	140	-	-

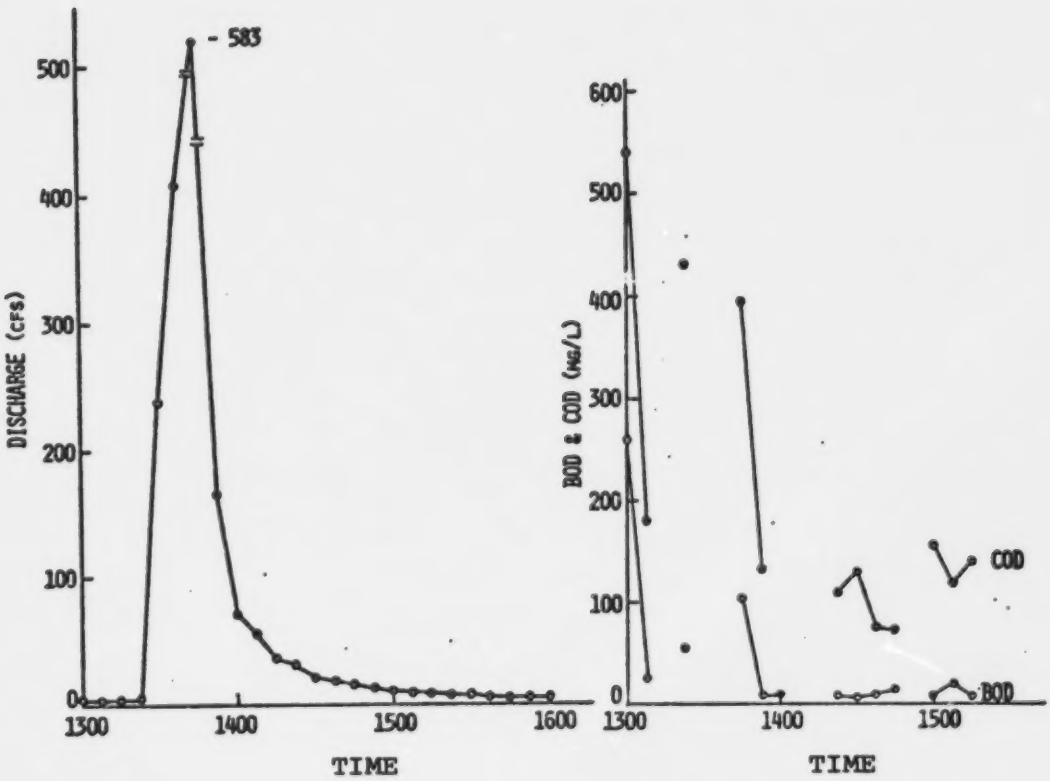


Figure 6-231 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

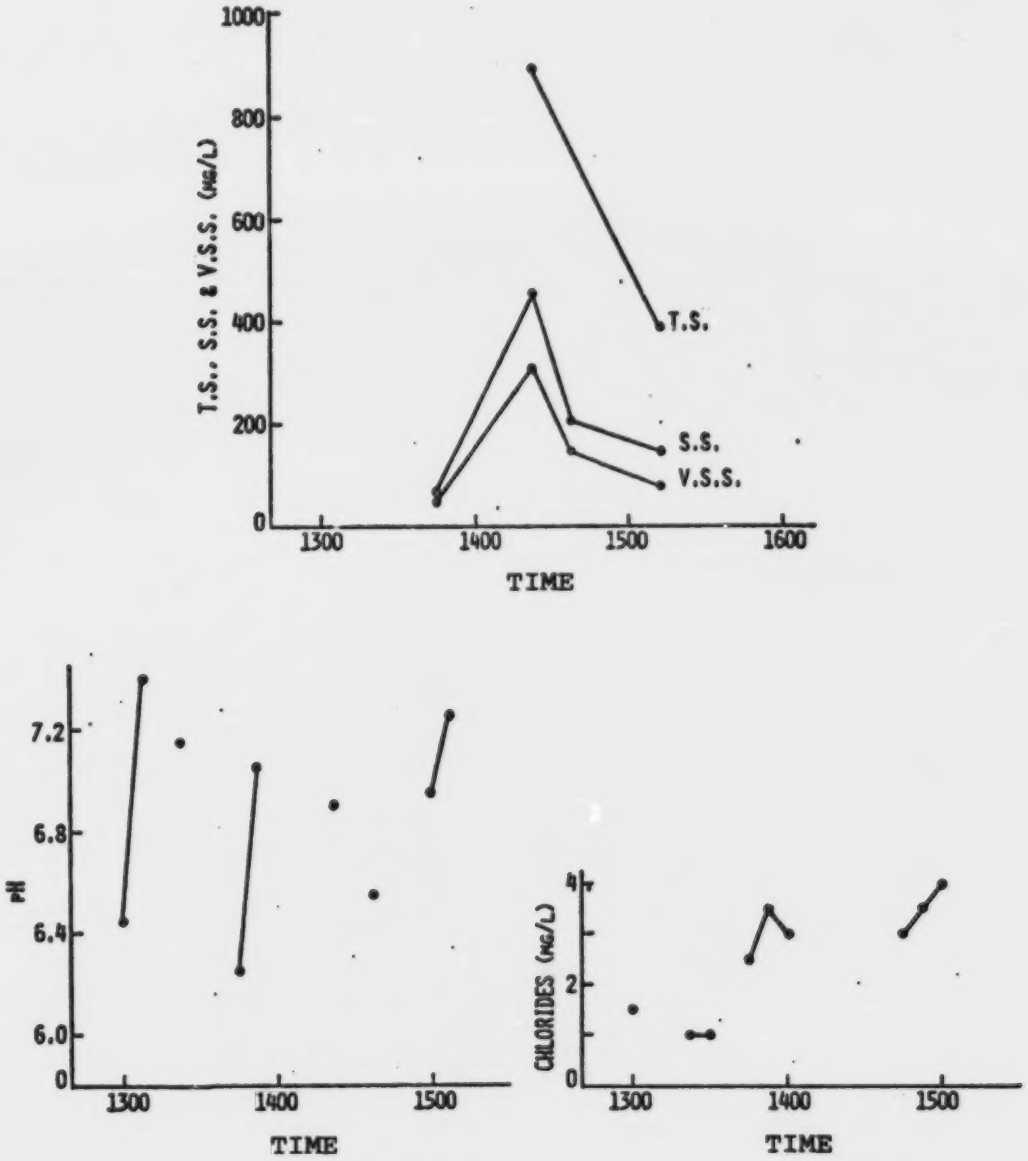


Figure 6-232 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

Table 6-62 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 28, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage								
1330	-	-	-	-	-	-	136	935	7.35	51
1337:30	-	-	8.0	-	-	-	92	896	7.25	40
1345	2.88	2.40	18.0	-	-	-	93	-	7.68	-
1352:30	3.00	1.80	541	-	426	187	84	810	7.15	10
1400	2.40	1.80	272	-	157	101	88	615	6.85	4
1407:30	1.80	.60	213	-	151	92	80	333	7.18	3
1415	.12	.30	162	-	301	176	120	240	7.35	-
1422:30	.12	.60	116	-	339	128	90	211	6.95	4
1430	.24	.42	81	389	220	78	58	282	7.50	6
1437:30	.12	.18	60	252	123	100	63	358	6.75	6
1445	.12	.12	45	345	299	129	45	387	7.12	9
1452:30	-	.12	25	-	307	205	-	-	-	-
1500	-	-	18	-	42	17	56	258	6.90	13
1507:30	-	-	15	-	437	352	50	252	7.20	13
1515	-	-	13	-	272	111	32	220	7.15	11
1522:30	-	-	11	146	76	30	22	227	7.40	15
1530	-	-	10	-	381	200	47	233	7.60	15
1537:30	-	-	9	249	156	89	99	258	7.15	14
1545	-	-	8	-	-	-	99	750	7.35	14
1552:30	-	-	6	-	-	-	112	760	7.48	15
1600	-	-	4	-	-	-	117	500	7.88	24
1607:30	-	-	-	-	-	-	124	535	7.75	24
1615	-	-	-	-	-	-	130	740	7.60	27
1622:30	-	-	-	-	-	-	145	820	7.80	30

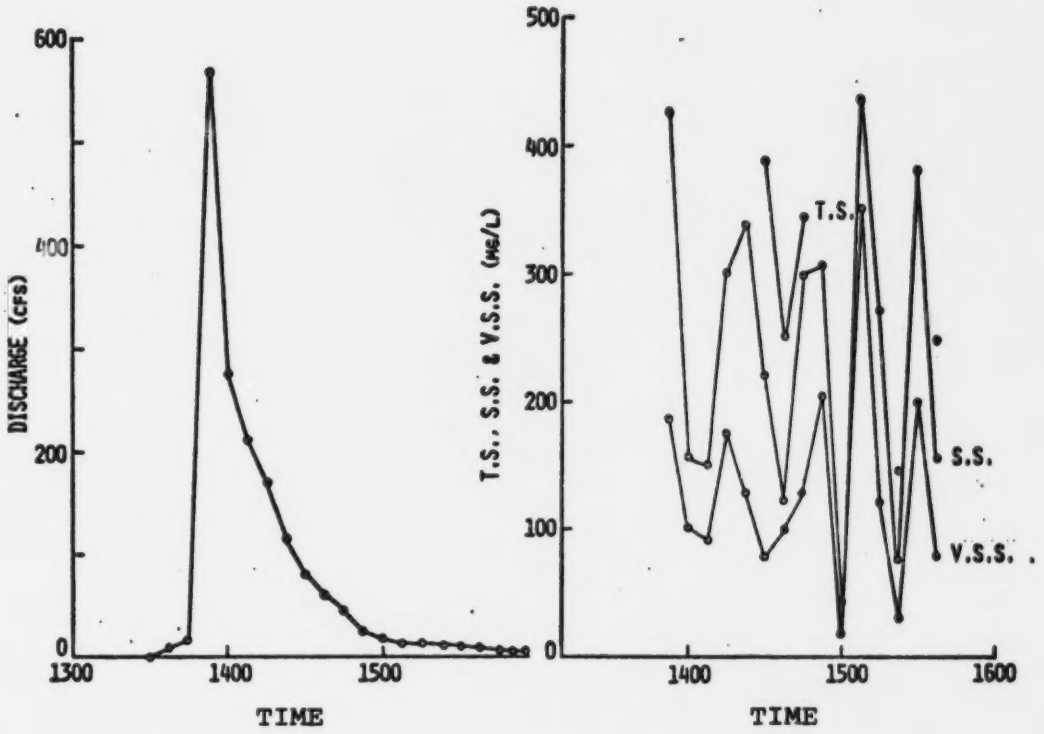


Figure 6-233 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

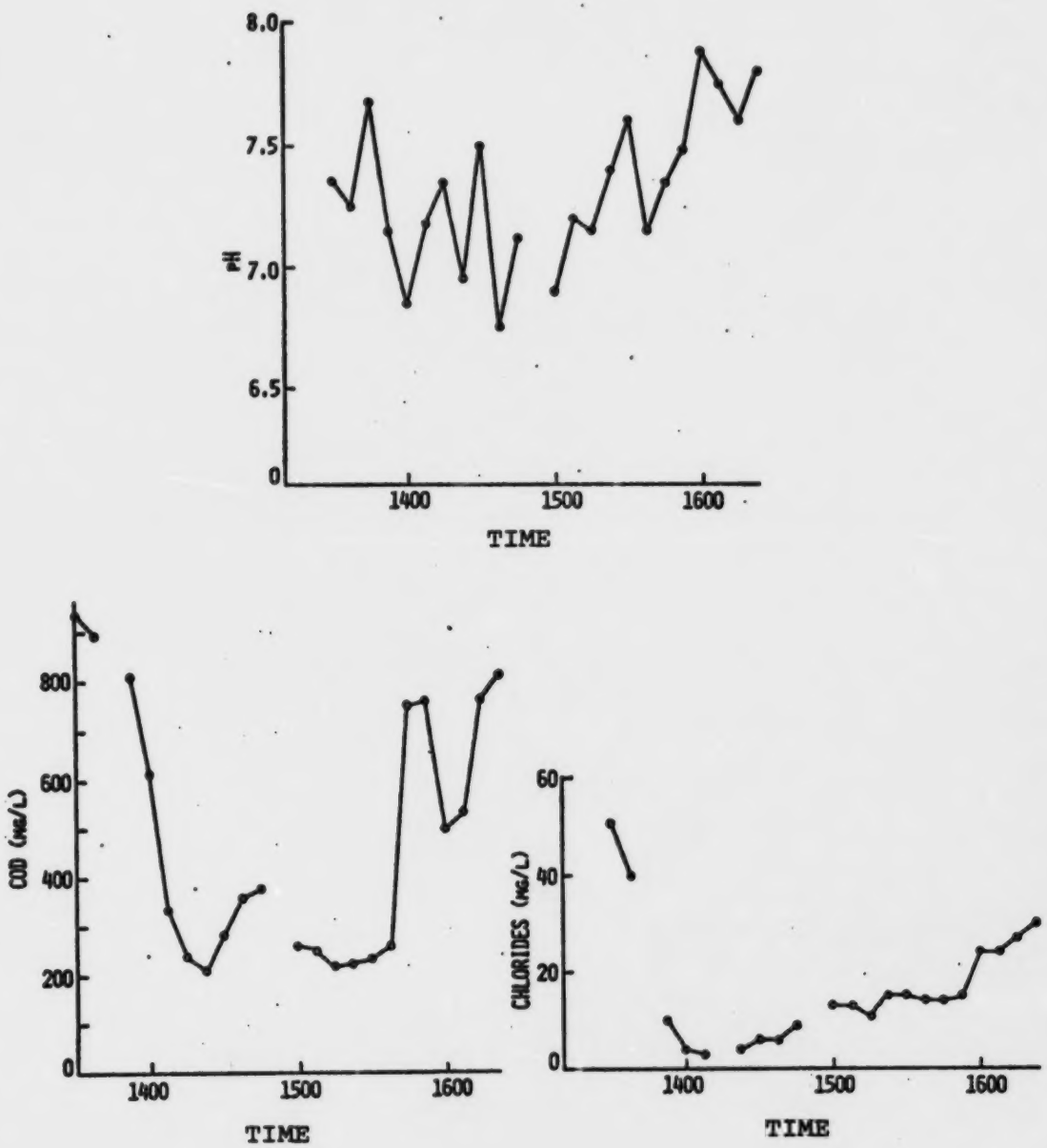
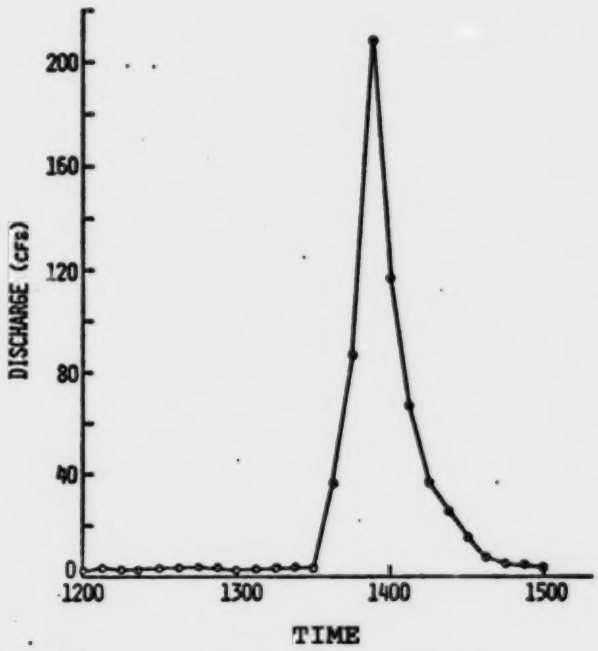


Figure 6-234 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER



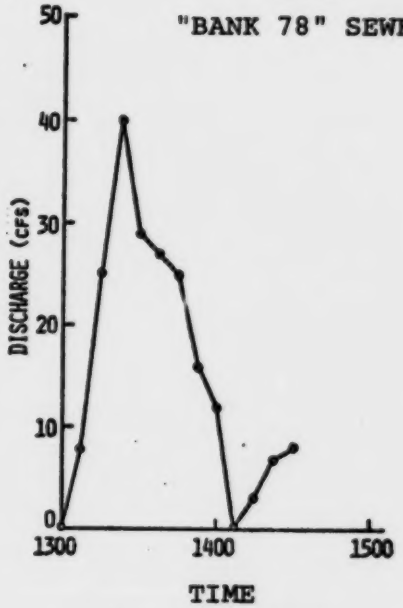


Figure 6-235 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JUNE 28, 1971

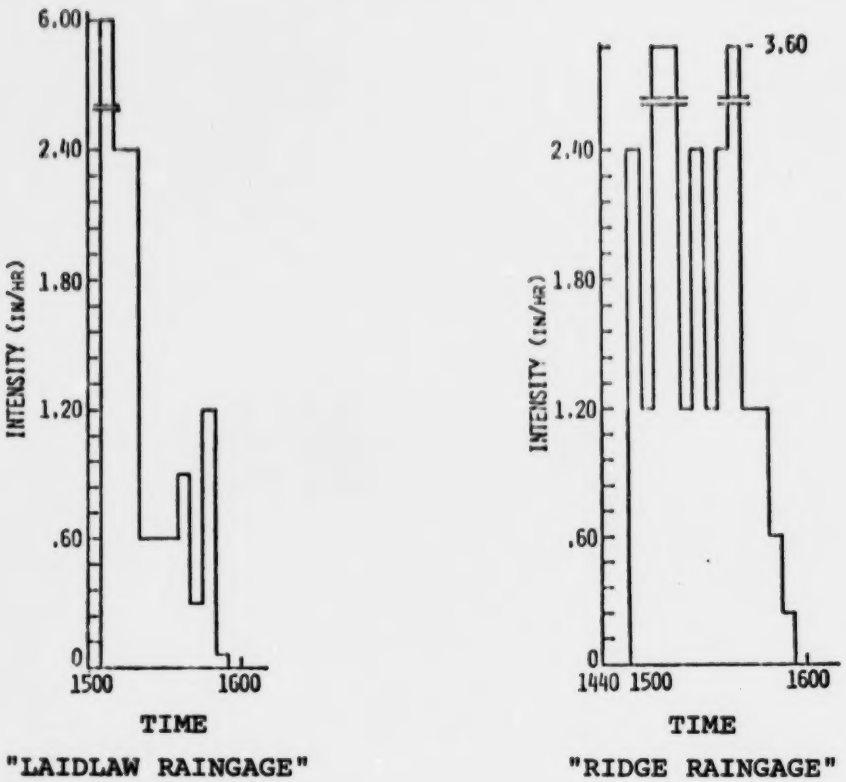


Figure 6-236 RAIN OF JULY 10, 1971
HYETOGRAPHS

Table 6-63 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 10, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage							
1430	-	-	-	526	312	-	-	-	-
1437:30	-	-	314	442	281	146	252	6.60	3.5
1445	-	-	691	503	326	-	52	6.95	3.0
1452:30	-	2.40	1447	483	211	121	276	7.4	3.0
1500	-	3.60	1338	300	189	-	-	6.70	5.0
1507:30	6.00	3.60	1301	592	357	96	164	7.40	6.0
1515	2.40	2.40	1267	369	200	132	260	6.75	3.0
1522:30	.60	1.20	1231	251	116	-	44	6.80	2.5
1530	.60	3.60	1206	329	118	54	104	6.50	2.5
1537:30	.90	1.20	1145	189	100	56	92	6.75	2.0
1545	1.20	.60	808	395	123	40	124	6.55	2.5
1552:30	.06	.24	595	291	127	35	160	6.60	2.5
1600	-	-	490	479	217	102	104	6.65	2.5
1607:30	-	-	398	591	289	35	96	6.50	3.5
1615	-	-	358	292	132	26	164	6.75	5.5
1622:30	-	-	315	625	396	35	124	6.50	5.0
1630	-	-	287	-	-	62	120	6.75	-
1637:30	-	-	267	-	-	86	120	6.50	-
1645	-	-	232	-	-	115	240	6.70	-
1652:30	-	-	203	-	-	110	156	-	-

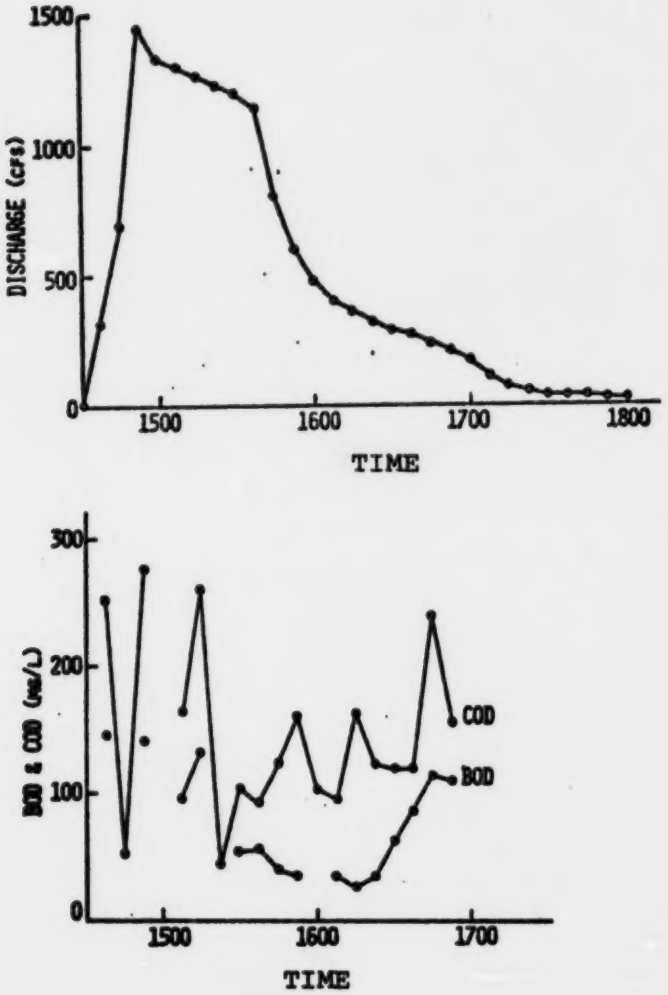


Figure 6-237 RUNOFF QUANTITY AND QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 10, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

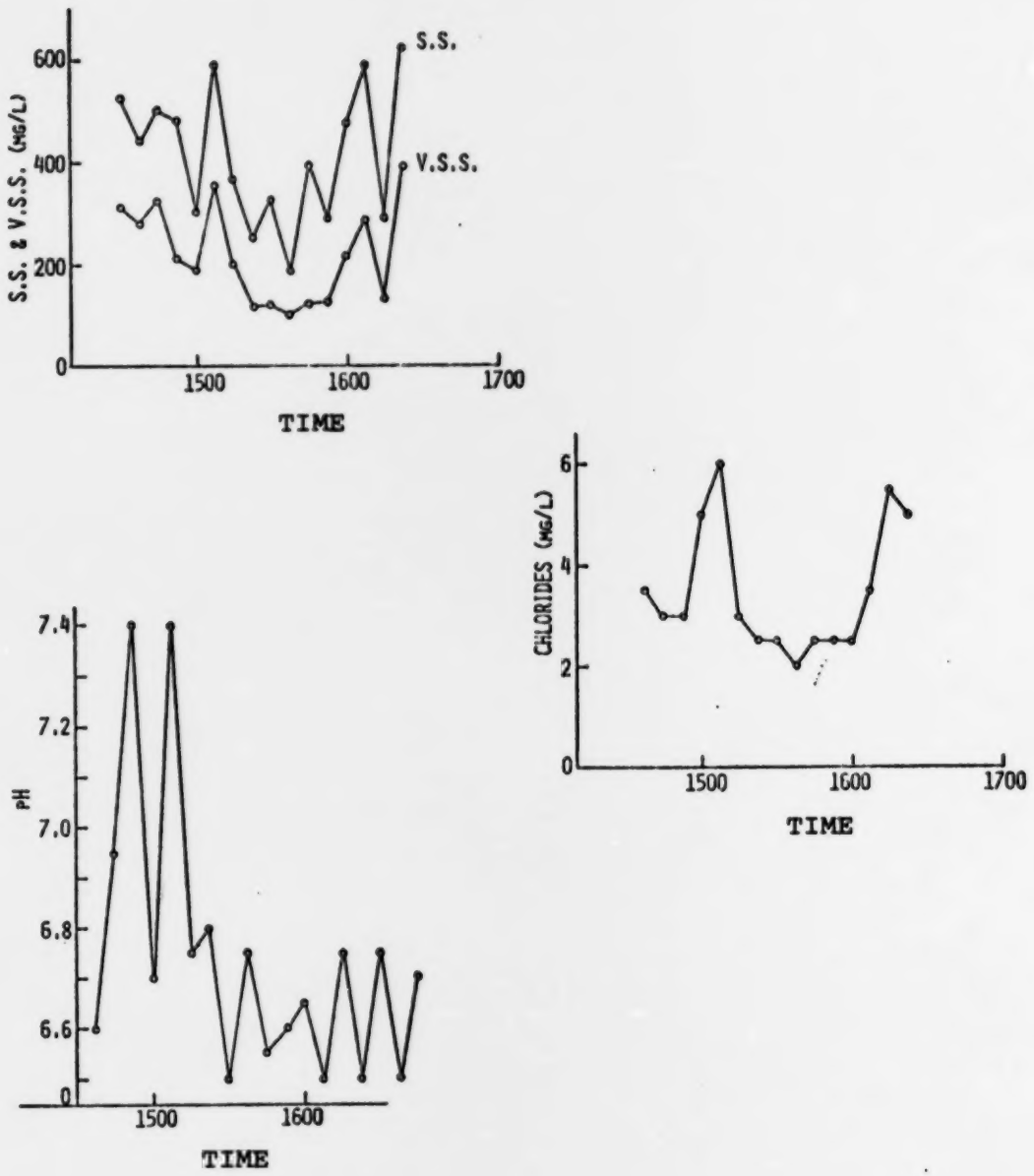


Figure 6-238 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 10, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-64 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 10, 1971 MONITORING STATION: Longview 12' x 9'

Time	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
1712:30	10.6	-	-	-	72	112	6.92	1.5
1720	10.6	286	185	101	44	135	6.80	2.5
1727:30	9.0	-	-	-	35	116	6.70	4.0
1735	8.5	-	-	-	-	112	6.80	2.5
1742:30	7.5	352	157	116	47	124	6.30	1.0
1750	6.4	316	167	104	47	645	6.18	3.0

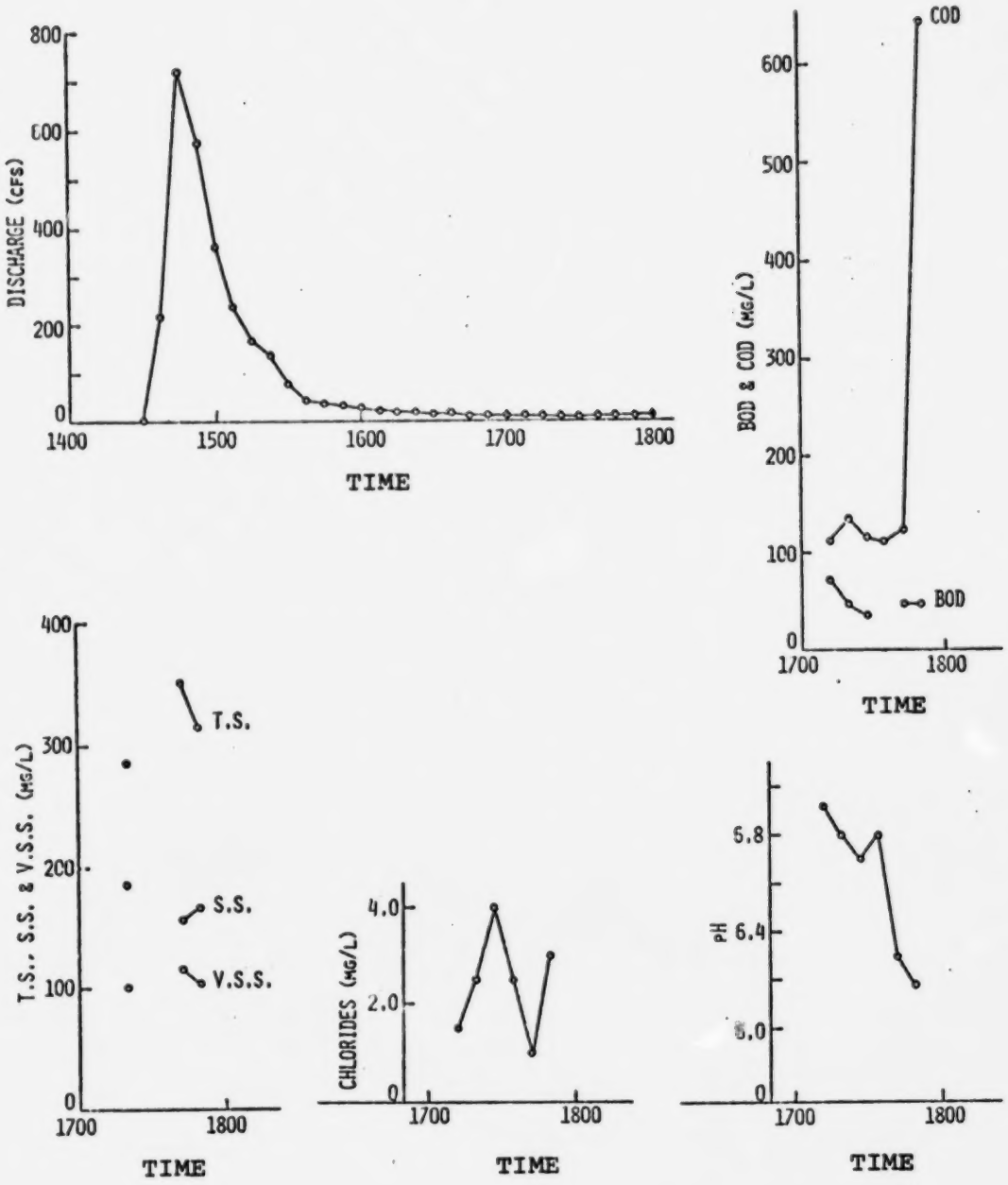


Figure 6-239 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 10, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

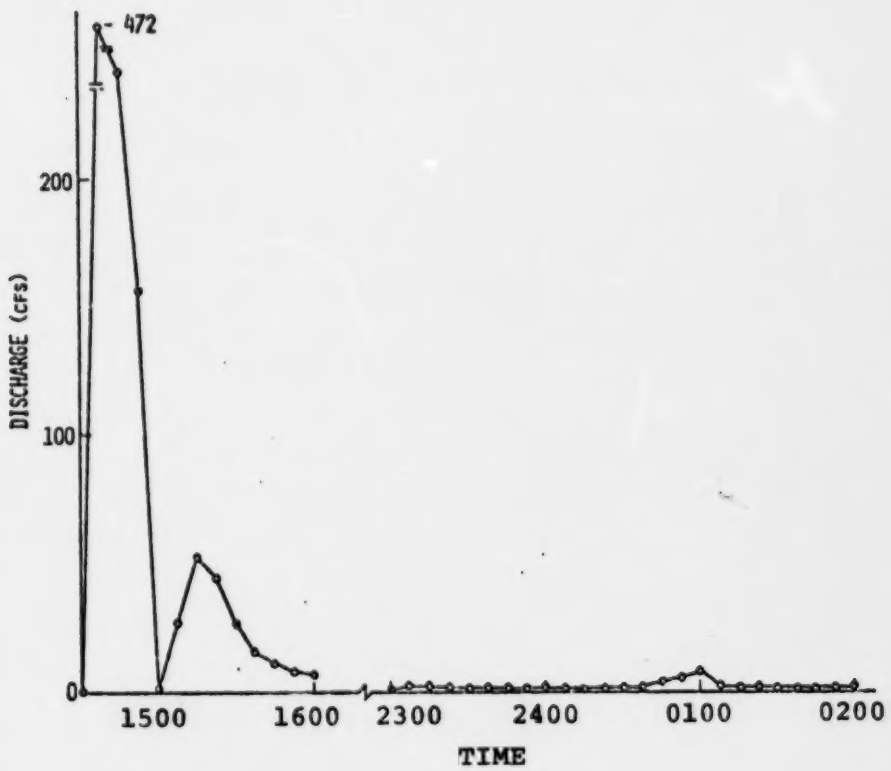
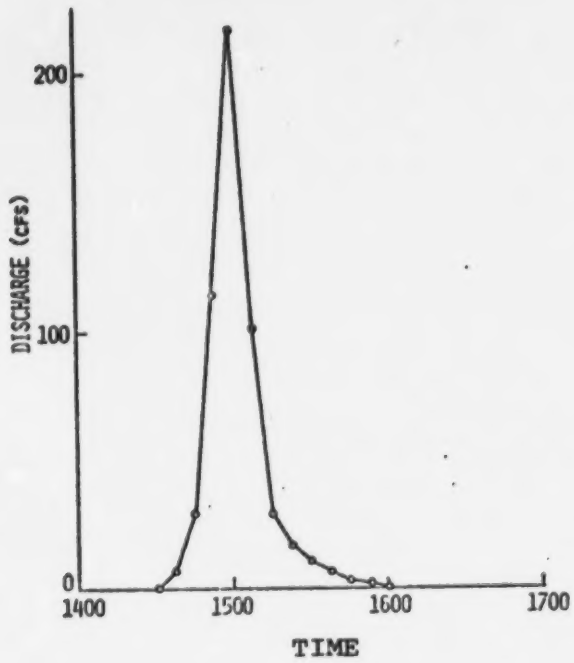


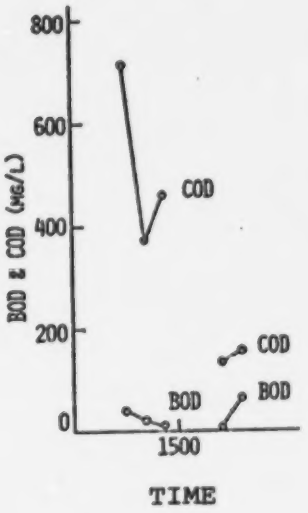
Figure 6-240 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 10, 1971
MONITORING STATION: BANK
78" SEWER

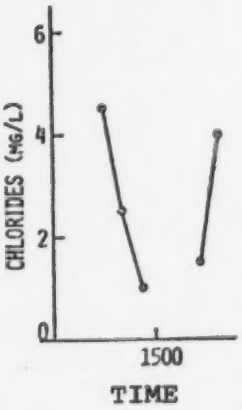
Table 6-65 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 10, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)		Discharge	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage					
1440	-	-	20	43	716	6.75	4.5
1447:30	-	-	45	23	372	6.60	2.5
1455	-	-	75	12	460	6.90	1.0
1517:30	2.40	3.60	25	6	136	6.80	1.5
1525	.60	1.20	18	67	160	6.95	4.0







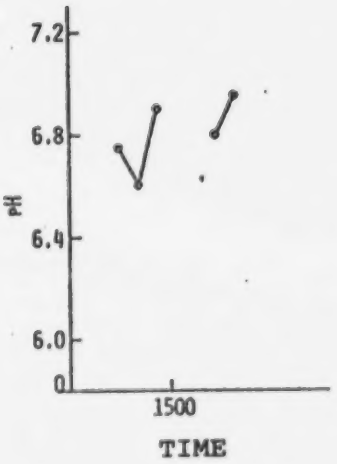


Figure 6-241 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 10, 1971
MONITORING STATION: BANK
54" SEWER

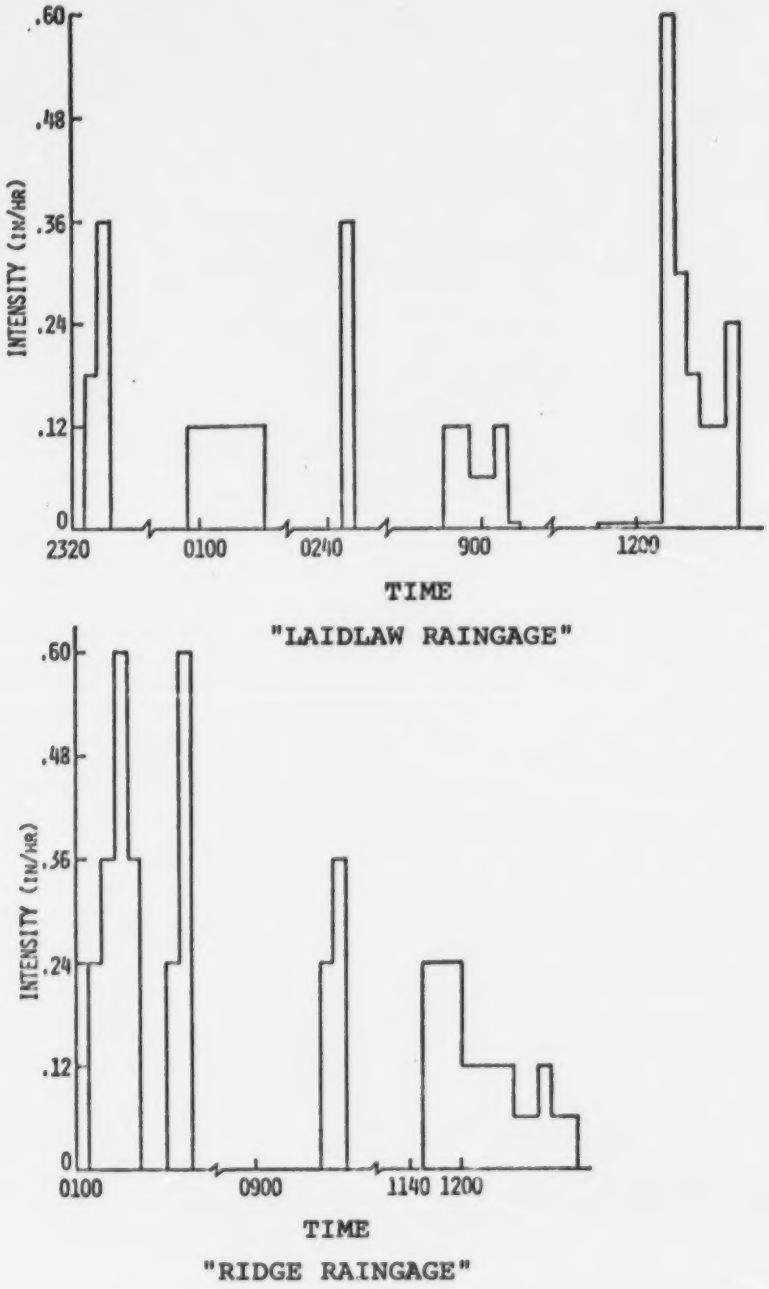


Figure 6-242 RAINFALL OF JULY 11, 1971
HYETOGRAPHS

Table 6-66 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 11, 1971 MONITORING STATION: Outlet

Time	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
0115	26	728	526	227	146	252	6.60	5.0
0122:30	252	699	442	284	-	52	6.95	2.0
0130	237	792	503	211	121	276	7.4	-
0137:30	176	704	483	216	-	164	6.70	-
0145	118	605	300	189	96	260	7.40	2.0
0152:30	51.5	770	592	312	-	44	6.75	-
1145	16.9	562	369	134	90	104	6.80	1.5
1152:30	237.0	548	251	127	54	92	6.50	1.5
1200	358	429	329	207	56	124	6.75	2.5
1207:30	358	308	189	131	40	160	6.55	4.0
1215	325	432	395	149	35	104	6.60	3.5
1222:30	293	392	291	107	-	96	6.65	5.0
1230	252	678	479	300	35	164	6.80	5.0
1237:30	222	699	591	248	26	124	6.75	4.5
1245	194	450	292	134	35	120	6.80	5.5
1252:30	154	827	625	329	62	120	6.75	5.5
1300	118	-	-	-	86	240	6.80	6.0
1307:30	86	-	-	-	115	156	6.70	7.5
1315		-	-	-	110	-	-	-

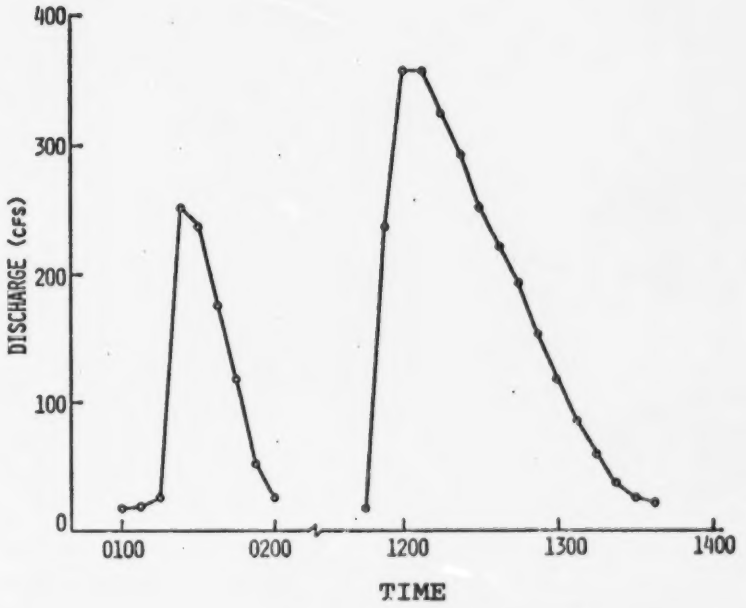


Figure 6-243 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 11, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

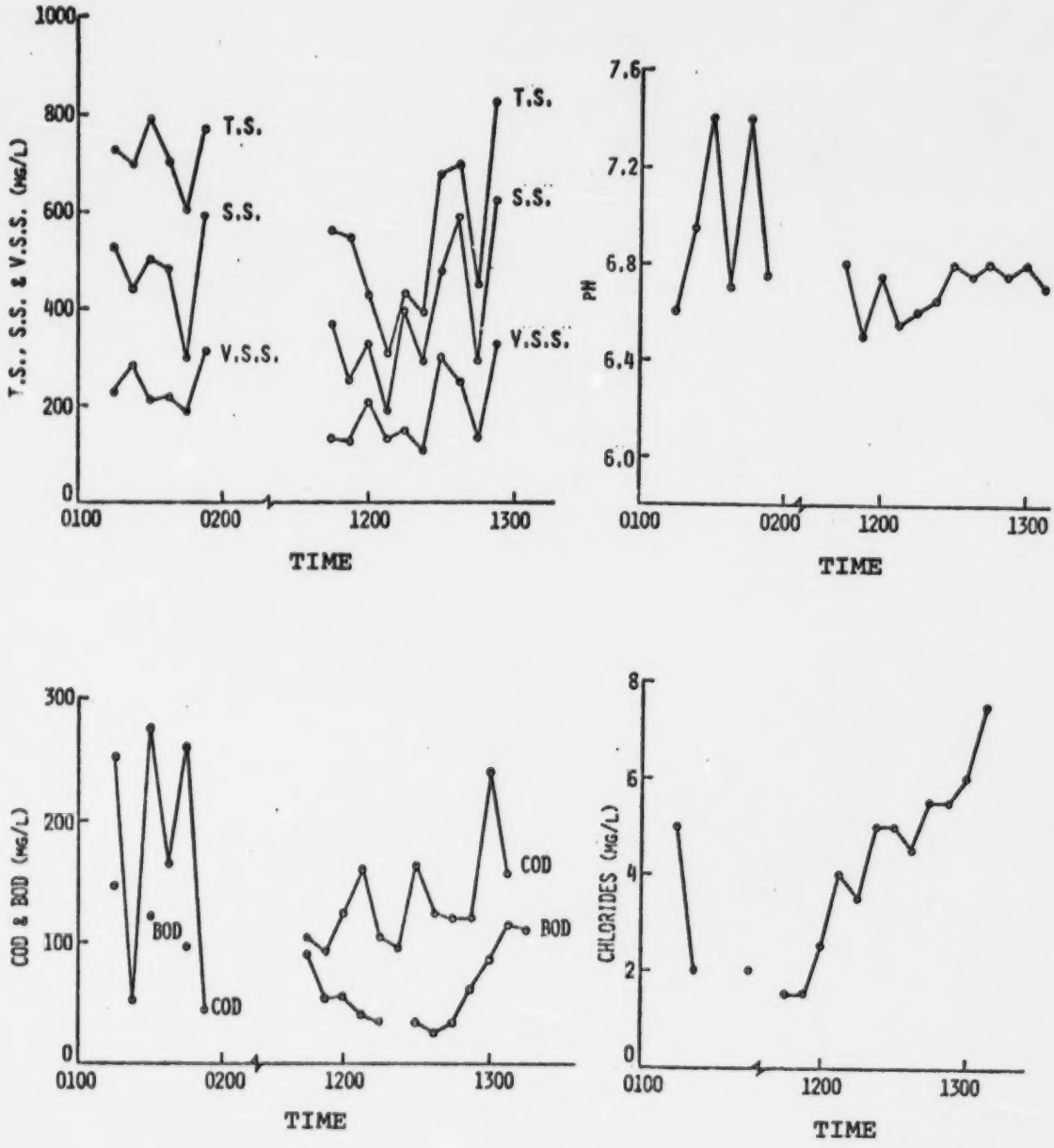


Figure 6-244 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 11, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-67 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 11, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Laidlaw Gage	Ridge Gage						
0045	-	-	21.5	-	-	-	107	260
0052:30	-	-	32.0	-	-	-	72	132
0100	.12	-	38.5	-	-	-	68	92
0107:30	.12	.24	25.0	-	-	-	-	-
1115	-	-	21.5	-	-	-	-	-
1122:30	-	-	44.5	-	-	-	-	48
1130	-	-	74.0	-	-	-	-	56
1137:30	-	-	62.0	-	-	-	-	48
1145	.006	-	56.0	496	366	176	49	92
1152:30	.006	.24	49.6	728	540	342	21	52
1200	.006	.24	44.5	816	496	317	34	100
1207:30	.006	.12	39	432	284	125	30	76
1215	.60	.12	29.5	476	298	140	47	92
1222:30	.18	.06	25	698	427	276	34	48

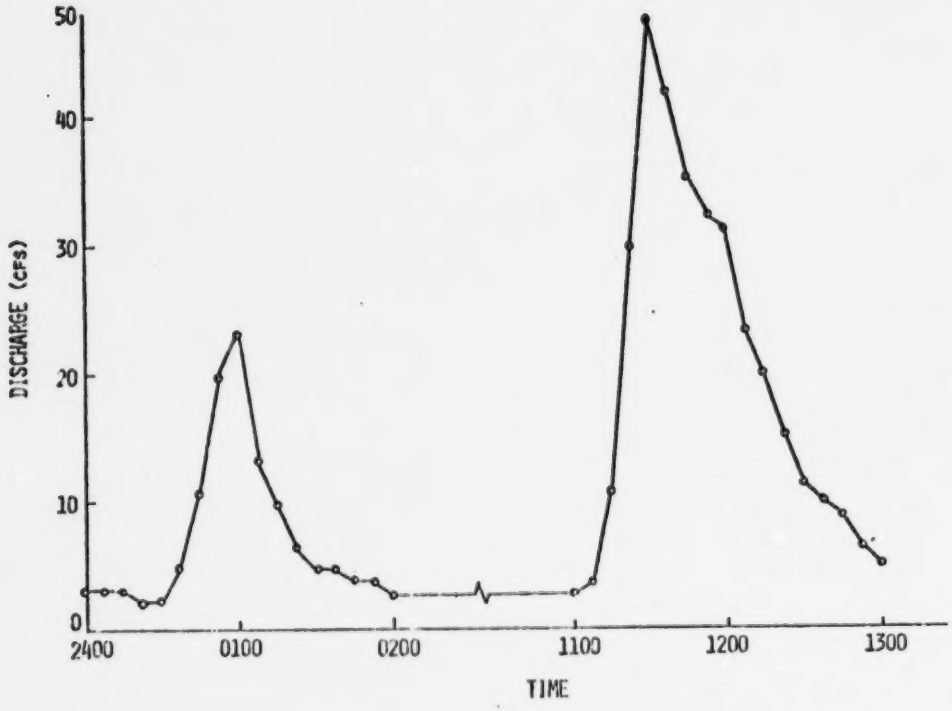
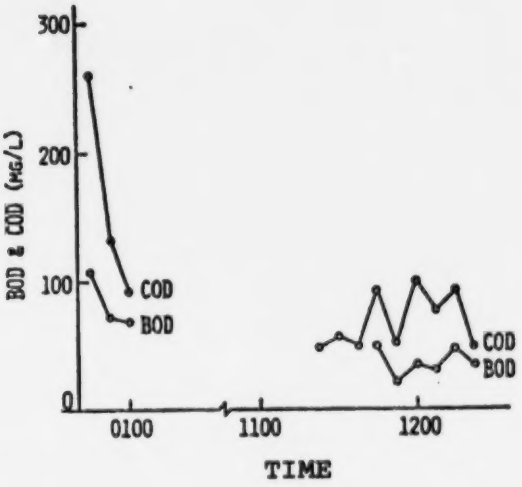


Figure 6-245 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 11, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER



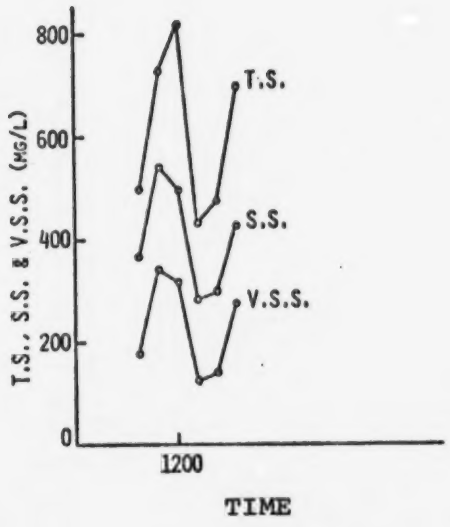


Figure 6-246 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 11, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

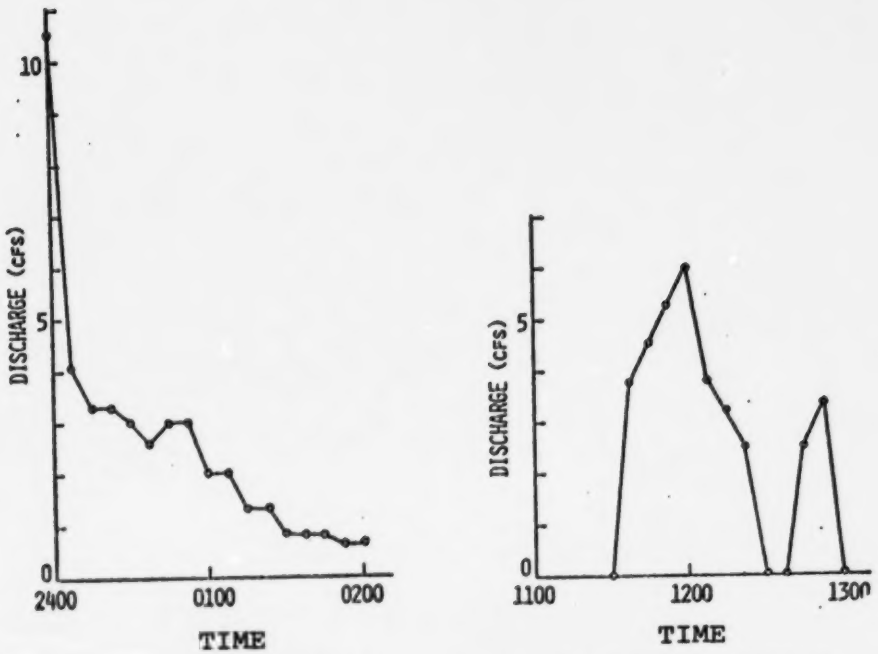


Figure 6-247 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 11, 1971

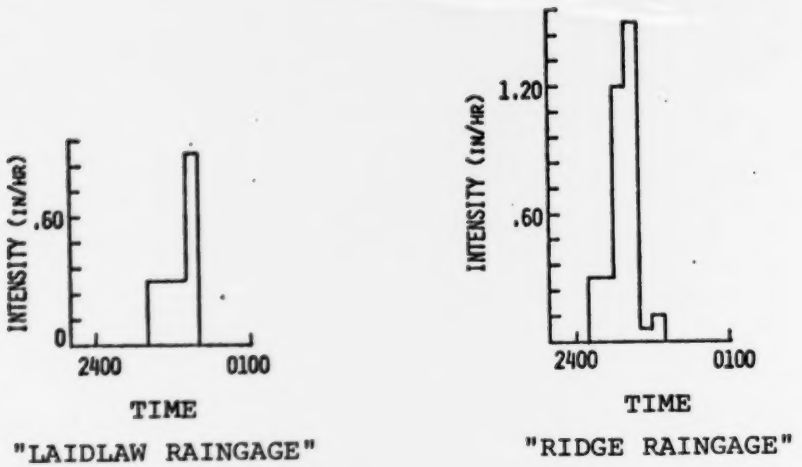


Figure 6-248 RAINFALL OF JULY 14, 1971
HYETOGRAPHS

Table 6-68 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 14, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage								
2400	-	-	-	2427	1188	612	149	384	7.10	20.5
0007:30	-	.30	12	2792	2144	819	112	376	7.10	16.0
0015	-	1.20	12	750	489	301	91	248	7.10	1.0
0022:30	.30	1.50	12	712	461	255	79	180	6.75	2.0
0030	.30	.12	21	925	659	367	72	172	6.65	4.0
0037:30	.90	-	315	628	404	344	42	164	6.70	4.0
0045	-	-	650	719	515	356	54	128	6.65	5.0
0052:30	-	-	590	496	336	189	71	136	6.80	7.0
0100	-	-	435	-	-	-	96	124	7.1	16.0

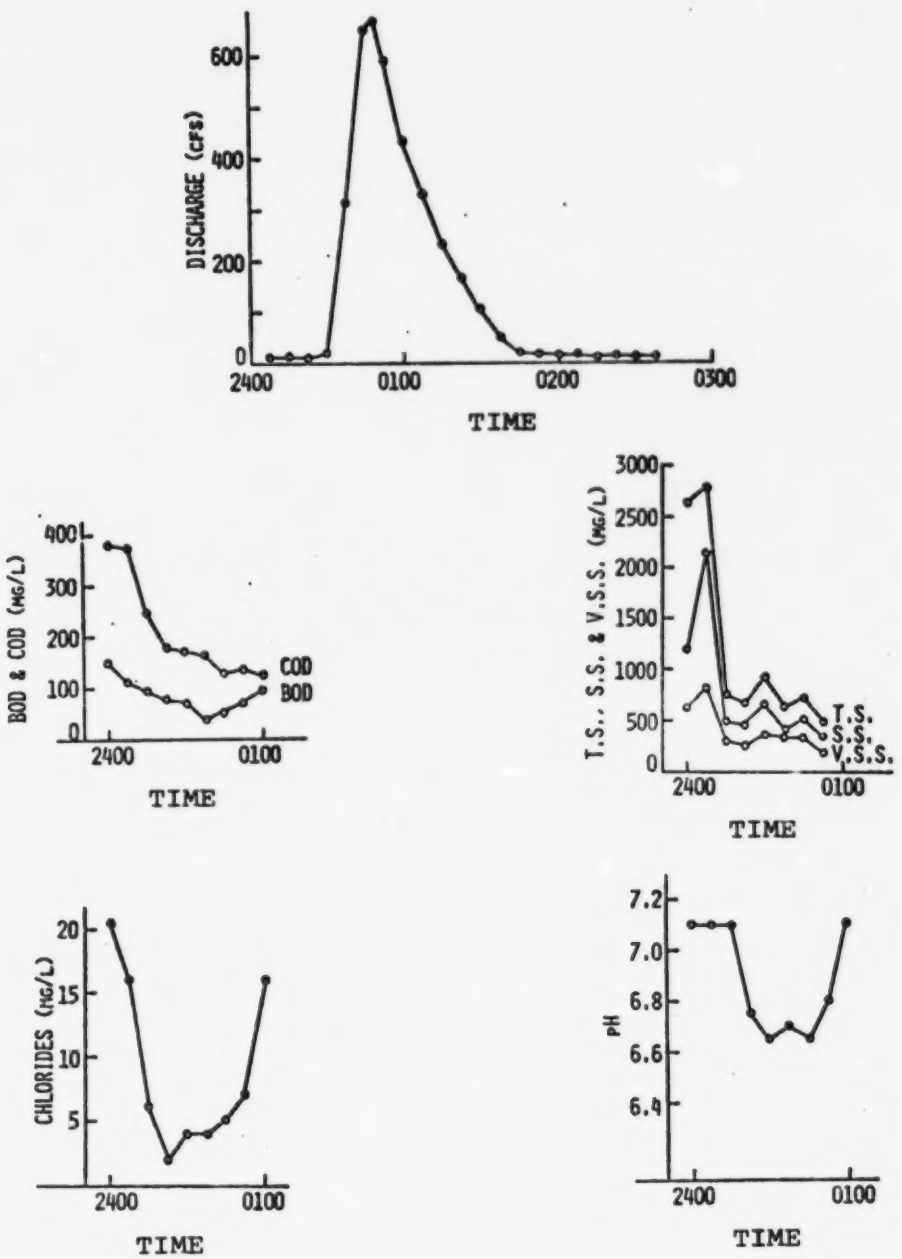


Figure 6-249 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 14, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-69 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 14, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage								
0015	-	.30	3.0	-	-	-	-	-	-	-
0022:30	.30	1.50	10.6	-	-	-	-	-	-	-
0030	.30	.06	150.0	-	-	-	-	-	-	-
0037:30	.90	-	102.0	-	-	-	-	-	-	-
0045	-	-	70.0	-	48	16	125	368	6.75	4.0
0052:30	-	-	35.0	-	71	24	115	156	6.70	5.0
0100	-	-	10.6	76	19	3	46	88	6.70	2.0
0102:30	-	-	8.5	149	70	14	35	100	6.60	3.0
0115	-	-	4.4	192	79	22	32	120	6.80	3.0
0122:30	-	-	4.4	-	66	27	80	104	6.90	6.0

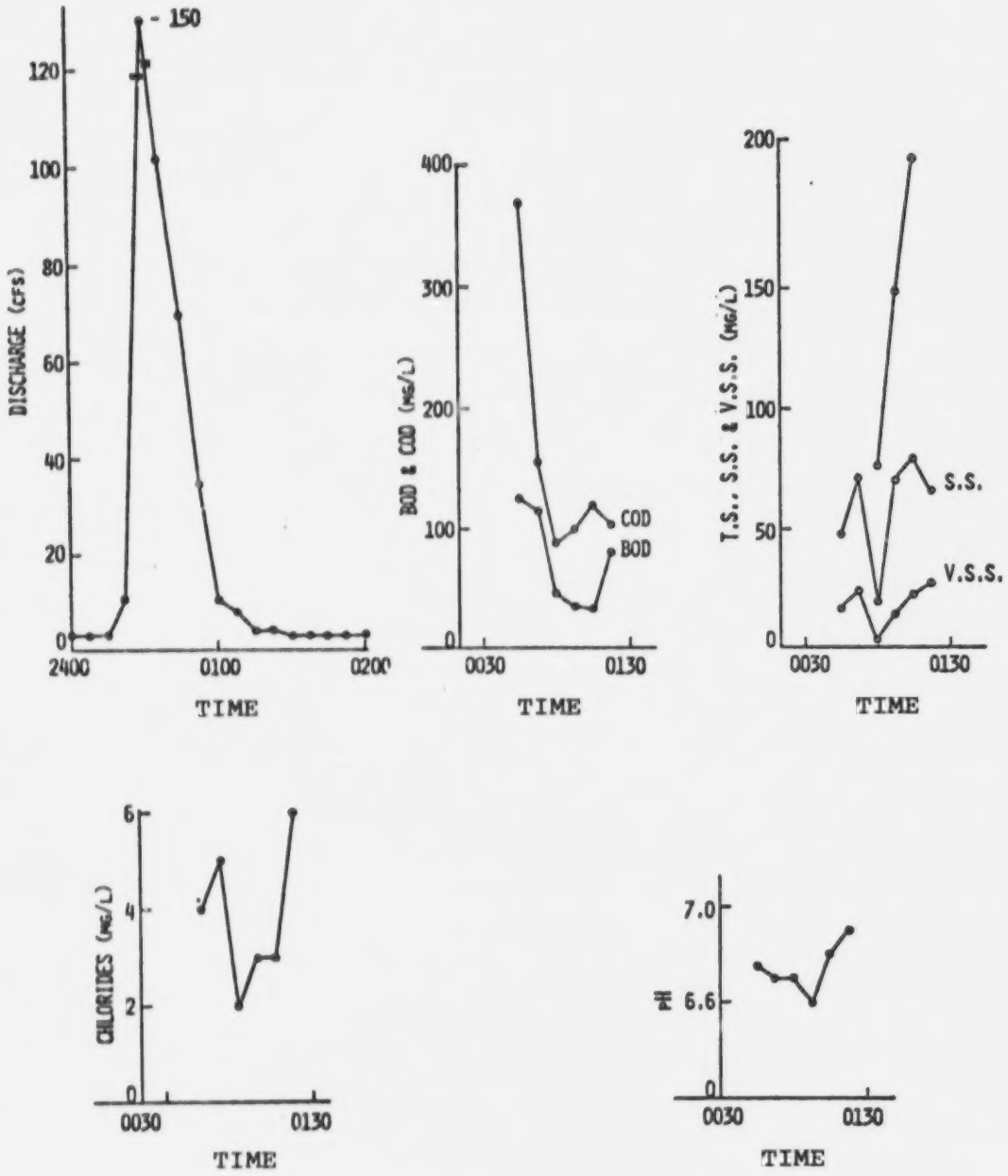


Figure 6-250 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 14, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

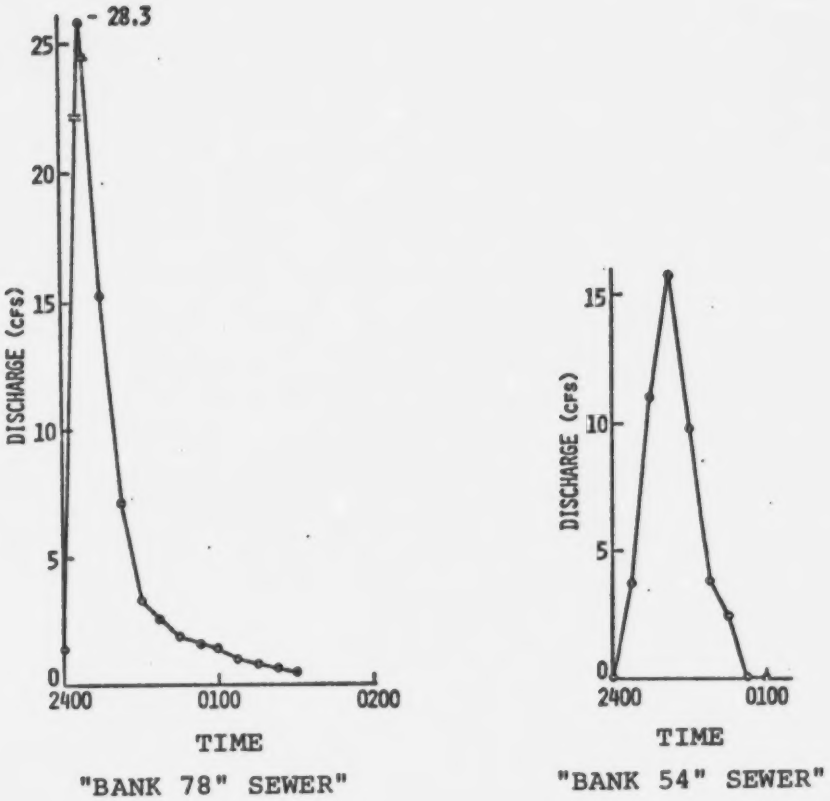
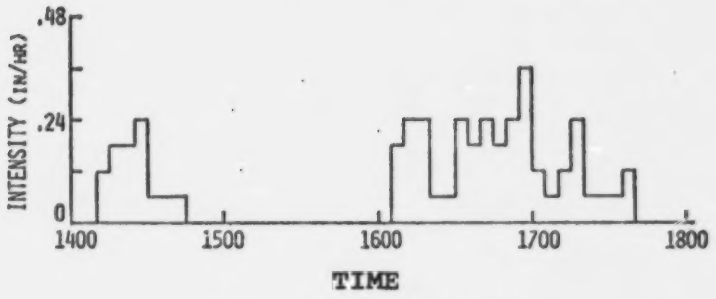
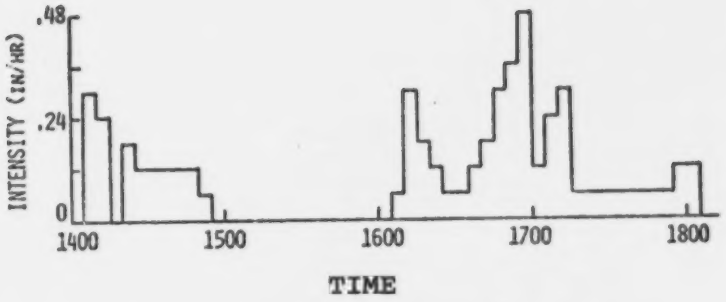


Figure 6-251 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 14, 1971



"LAIDLAW RAINGAGE"



"RIDGE RAINGAGE"

Figure 6-252 RAINFALL OF JULY 18, 1971
HYETOGRAPHS

Table 6-70 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 18, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage								
1337:30	-	-	26	986	710	432	120	640	7.30	5.0
1345	-	-	60	682	423	217	109	428	7.35	4.0
1352:30	-	-	81	928	743	428	106	468	7.30	4.0
1400	-	-	96	916	198	111	98	476	7.30	4.5
1407:30	-	0.30	68	-	-	-	92	412	7.25	-
1415	0.12	-	51	-	967	610	86	352	7.35	3.0
1422:30	0.18	0.18	34	-	886	576	84	352	7.40	3.5
1430	0.06	0.12	26	-	725	428	81	144	7.25	3.0
1537:30	-	-	17	428	291	117	145	180	7.35	3.0
1545	-	-	86	575	345	216	88	120	7.10	2.5
1552:30	-	-	176	417	188	106	62	92	7.20	2.5
1600	-	-	315	392	242	100	56	60	6.30	2.0
1607:30	0.18	0.06	348	327	271	116	52	80	7.30	2.5
1615	0.24	0.18	348	352	242	103	25	96	7.35	2.0
1622:30	0.06	0.12	315	381	236	102	45	120	7.40	2.0
1630	0.06	0.06	283	396	224	104	38	88	7.10	2.0
1637:30	0.18	0.12	233	324	219	116	50	160	7.45	3.0
1645	0.24	0.18	203	290	156	112	-	120	7.20	3.5
1652:30	0.24	0.36	194	289	165	97	-	76	7.15	3.0
1700	0.12	0.12	176	242	156	86	-	84	7.15	4.5
1707:30	0.06	0.24	142	217	97	54	109	120	7.40	5.5
1715	0.12	0.06	105	312	175	77	105	120	7.20	7.0
1722:30	0.06	0.06	68	368	249	109	75	-	-	-

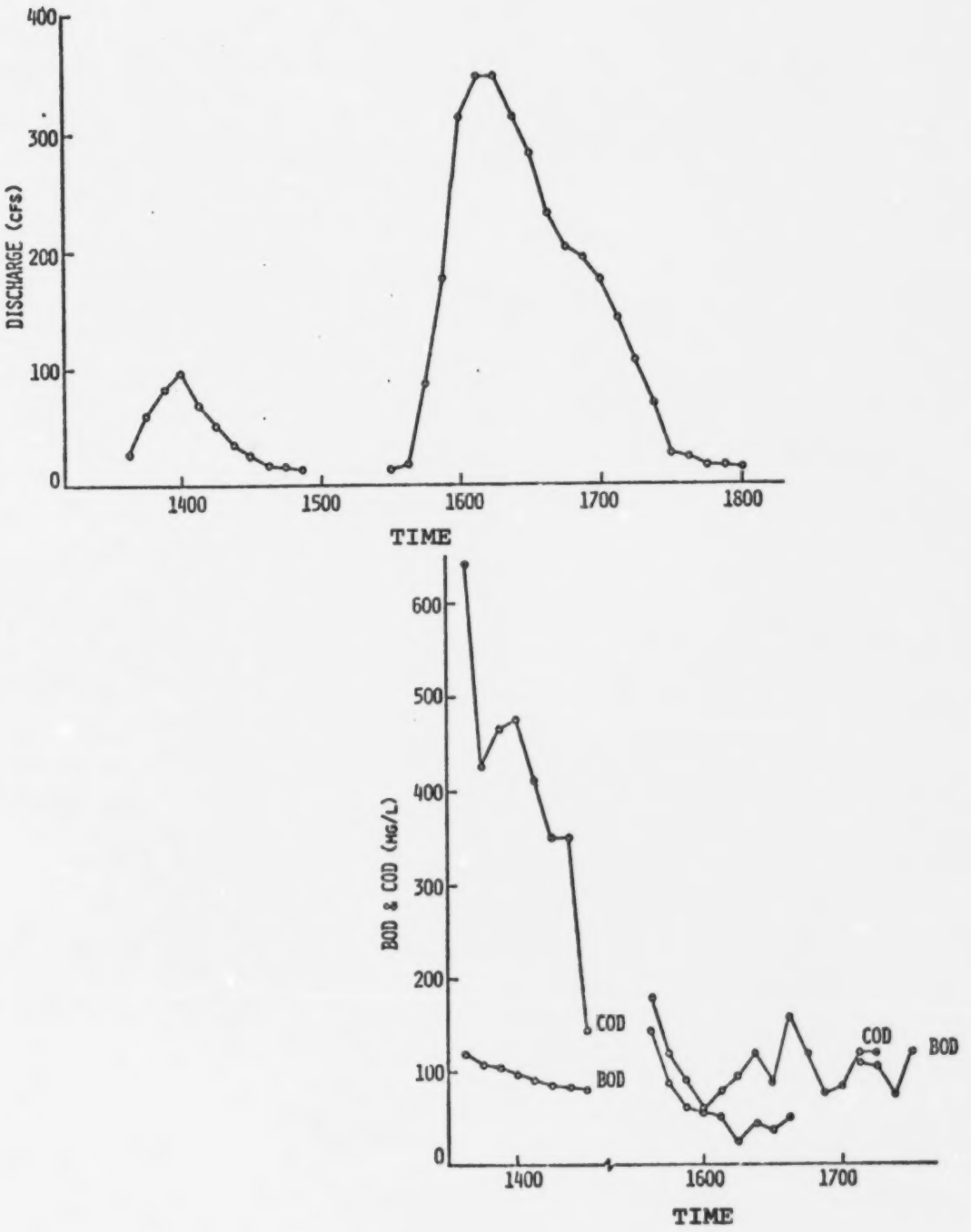


Figure 6-253 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 18, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

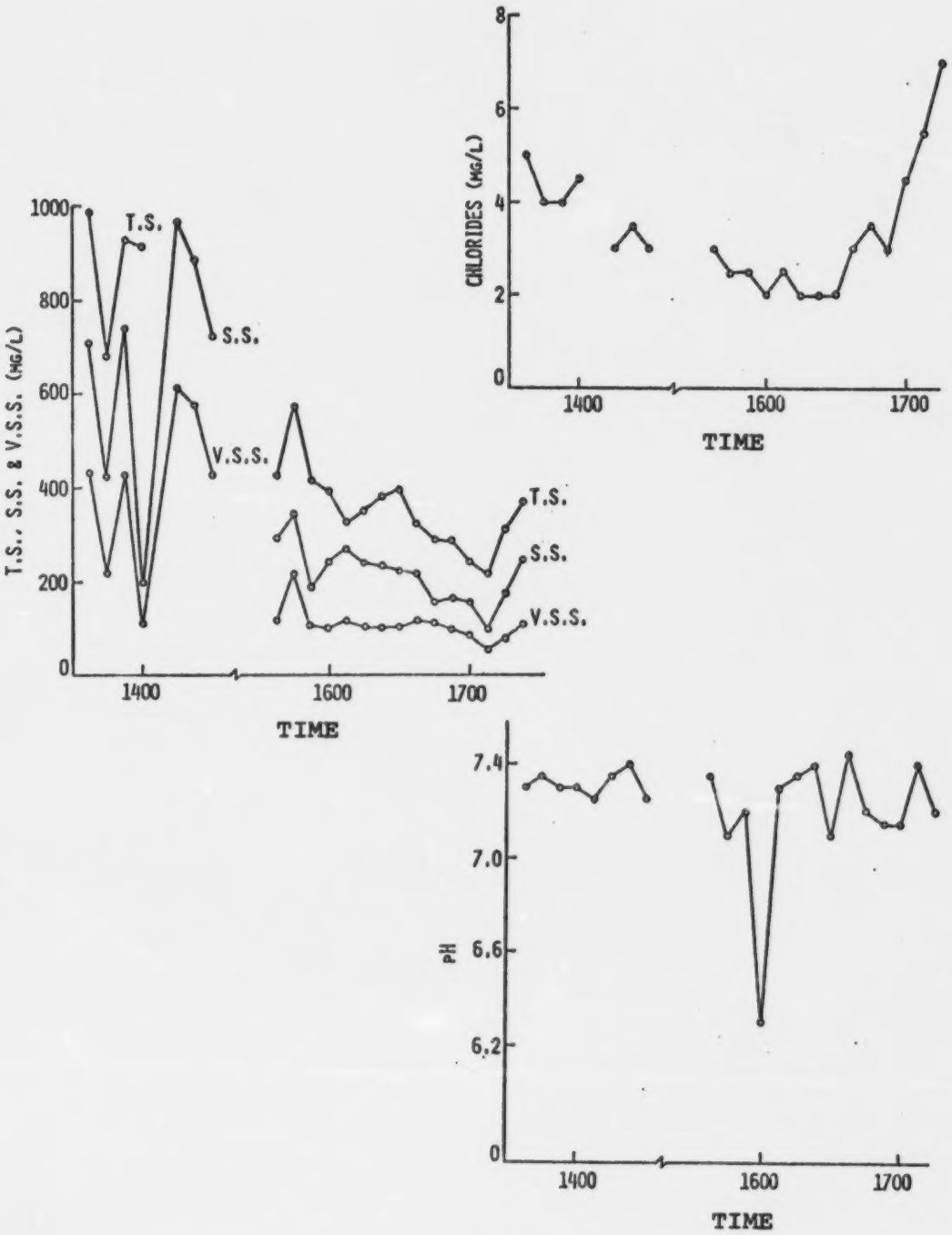


Figure 6-254 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 18, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-71 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 18, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	COD	pH	Cl
	Laidlaw Gage	Ridge Gage							
1350	-	-	9.5	-	-	-	-	-	-
1357:30	-	-	15.0	427	215	155	40	6.90	7.0
1405	-	-	16.0	352	152	78	320	6.90	5.0
1412:30	.12	.24	11.5	317	116	46	80	6.95	4.0
1420	.18	-	9.5	-	-	-	16	6.95	-
1552:30	-	-	22.8	-	-	-	-	-	-
1600	-	-	35.7	-	-	-	-	-	-
1607:30	.18	.06	40.0	-	-	-	-	-	-
1615	.24	.30	50.0	-	-	-	240	7.10	6.0
1622:30	.06	.12	40.0	-	-	-	20	6.80	-
1630	.06	.06	35.7	-	-	-	-	-	-
1637:30	.18	.12	27.2	-	-	-	16	6.80	9.0
1645	.24	.30	22.8	496	234	116	24	6.60	12.0

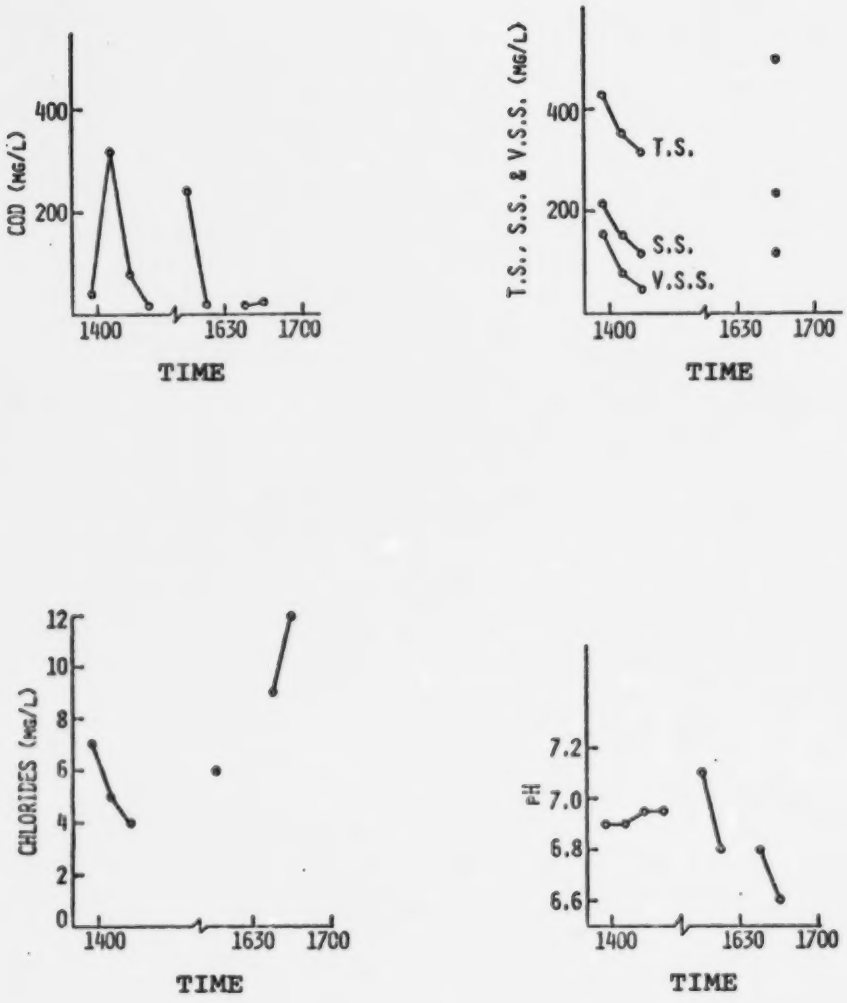


Figure 6-255 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 18, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

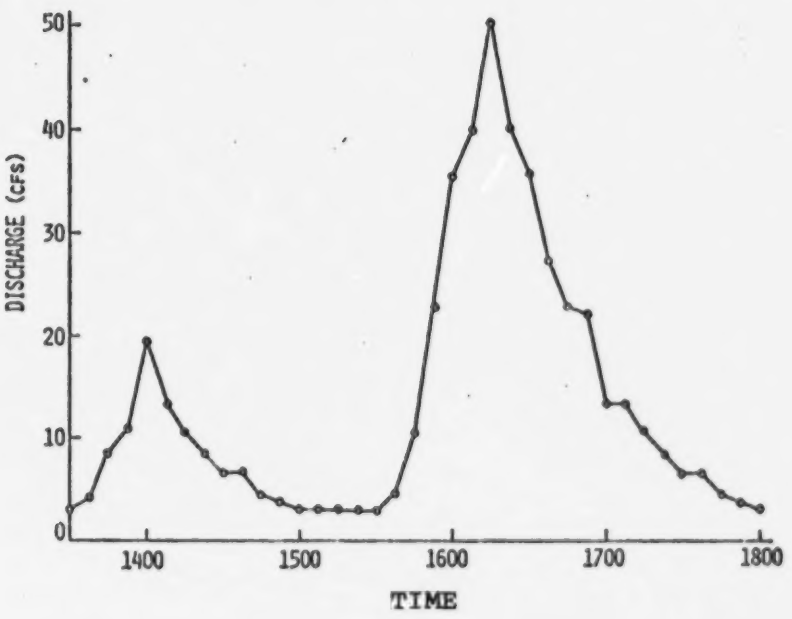


Figure 6-256 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 18, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

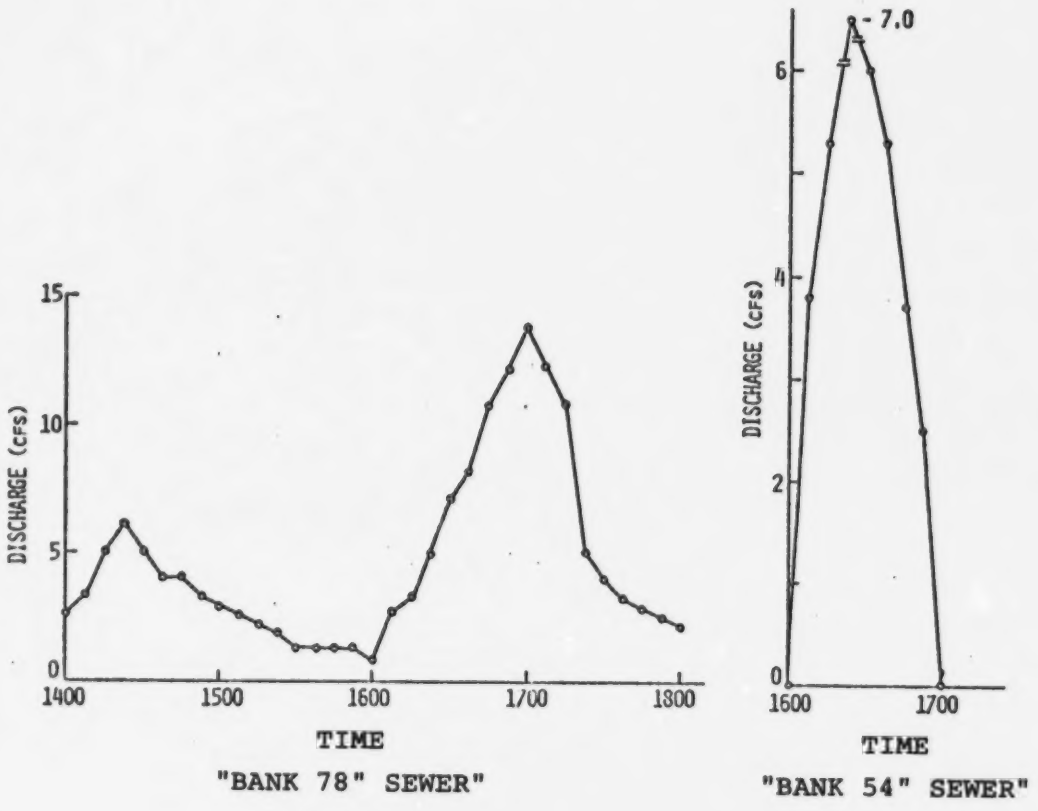


Figure 6-257 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 18, 1971

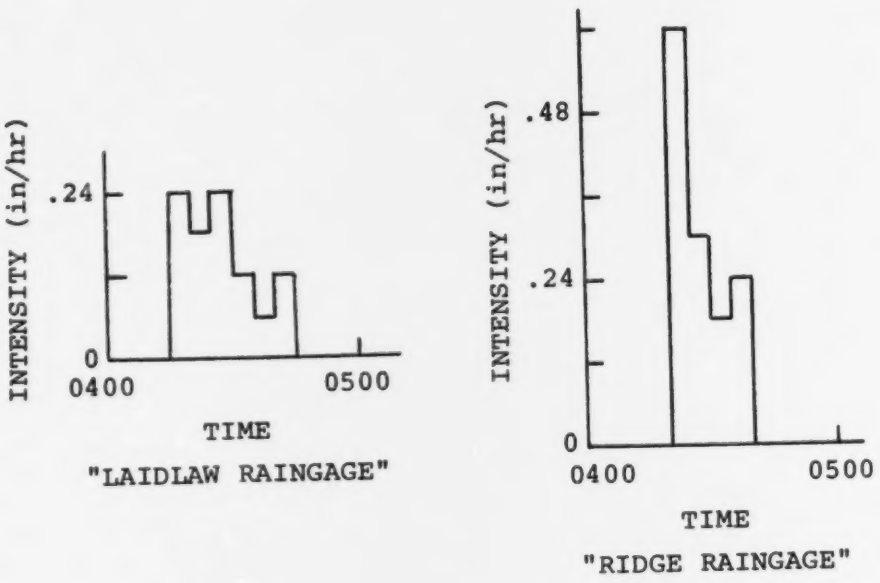


Figure 6-258 RAIN OF JULY 19, 1971
HYETOGRAPHS

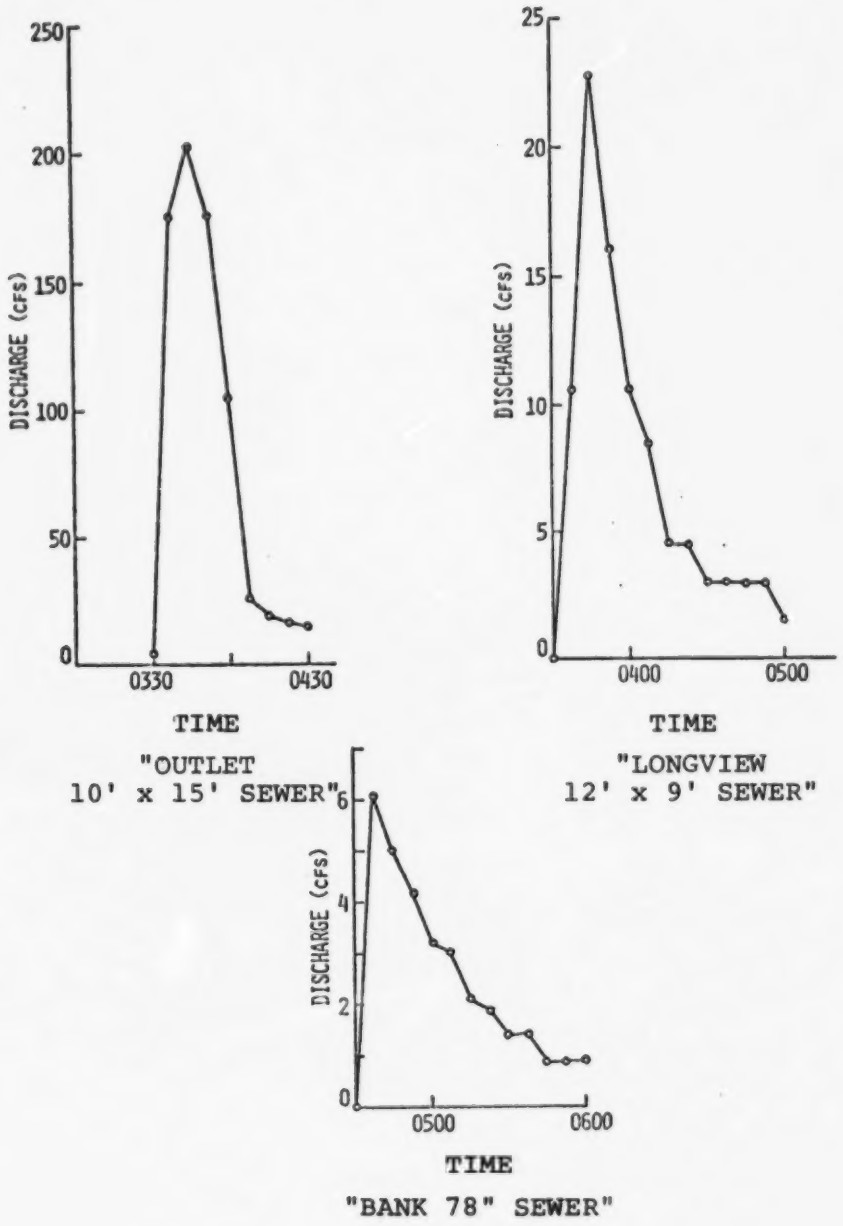


Figure 6-259 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 19, 1971

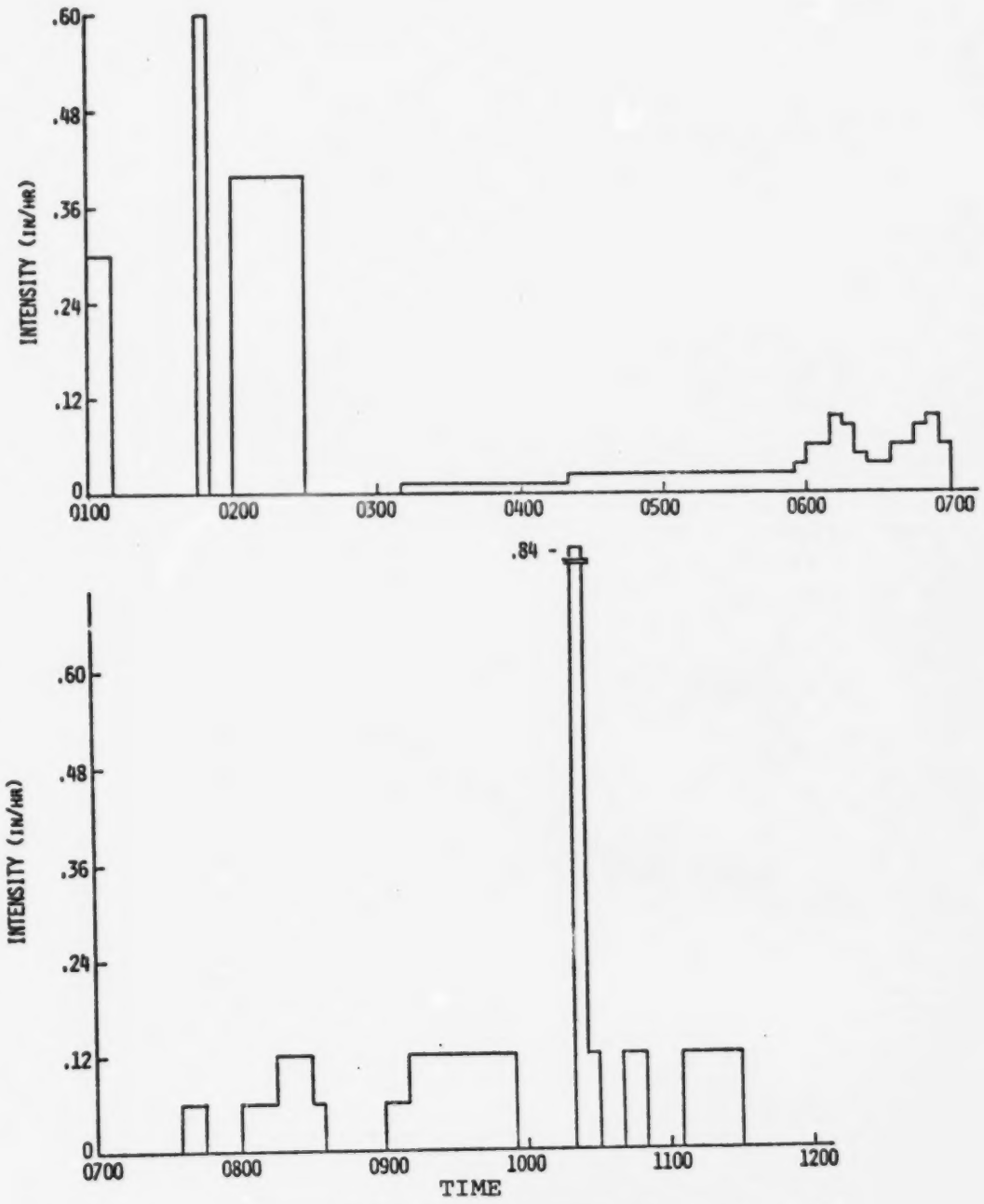


Figure 6-260 RAIN OF JULY 23 & 24, 1971
LAIDLAW RAINGAGE
HYETOGRAPHS

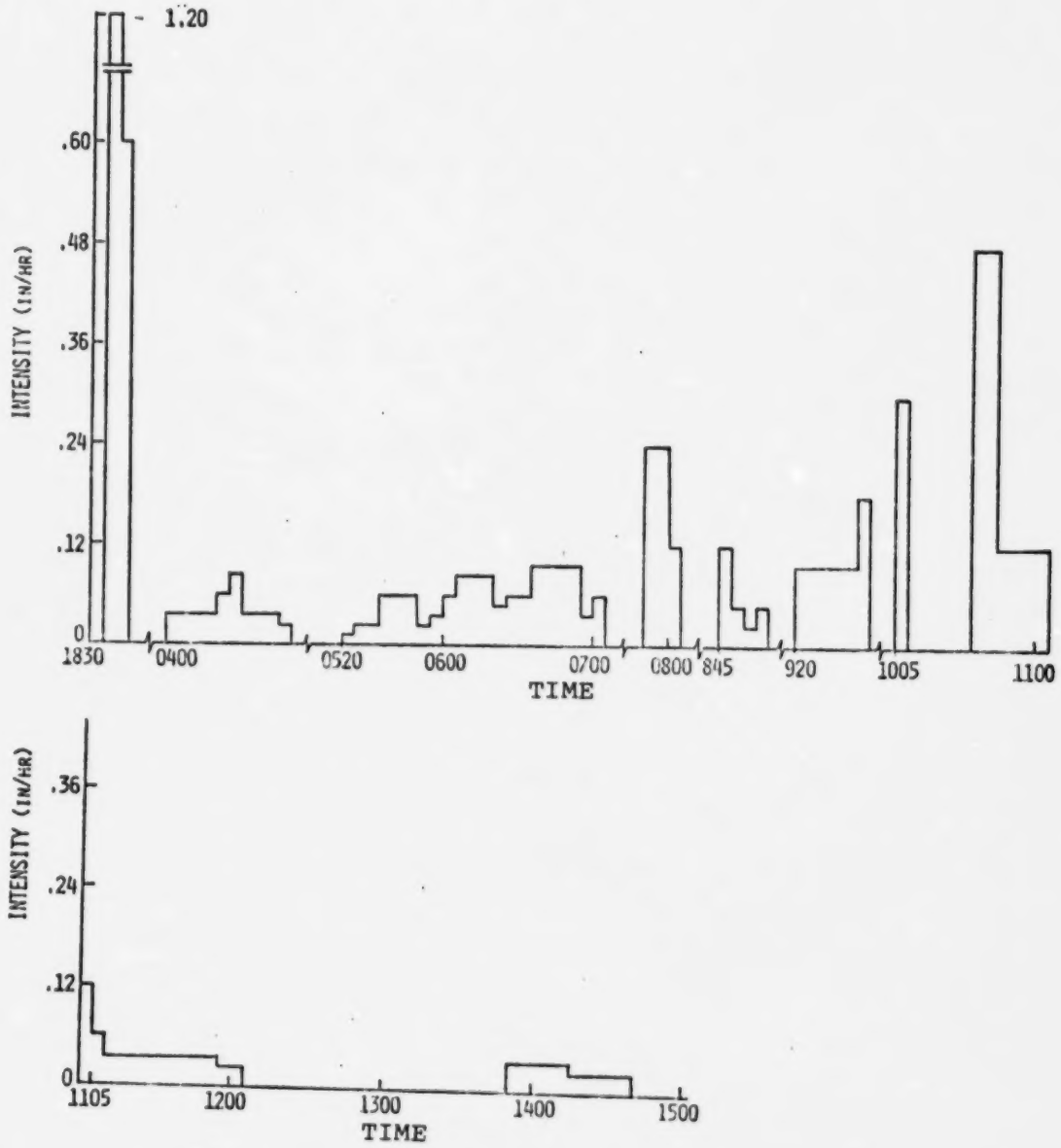


Figure 6-261 RAIN OF JULY 23 & 24, 1971
RIDGE RAINGAGE
HYETOGRAPHS

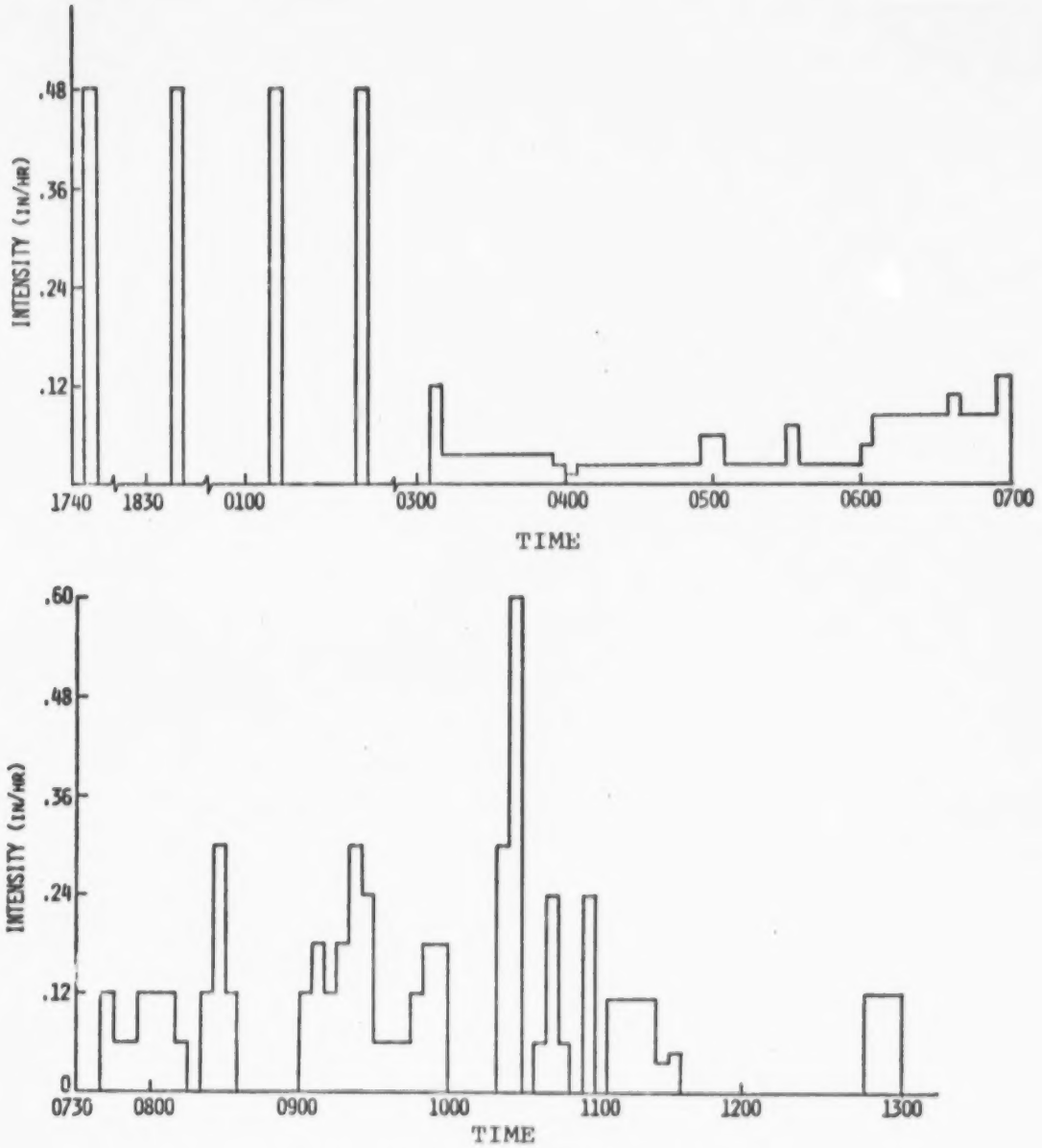
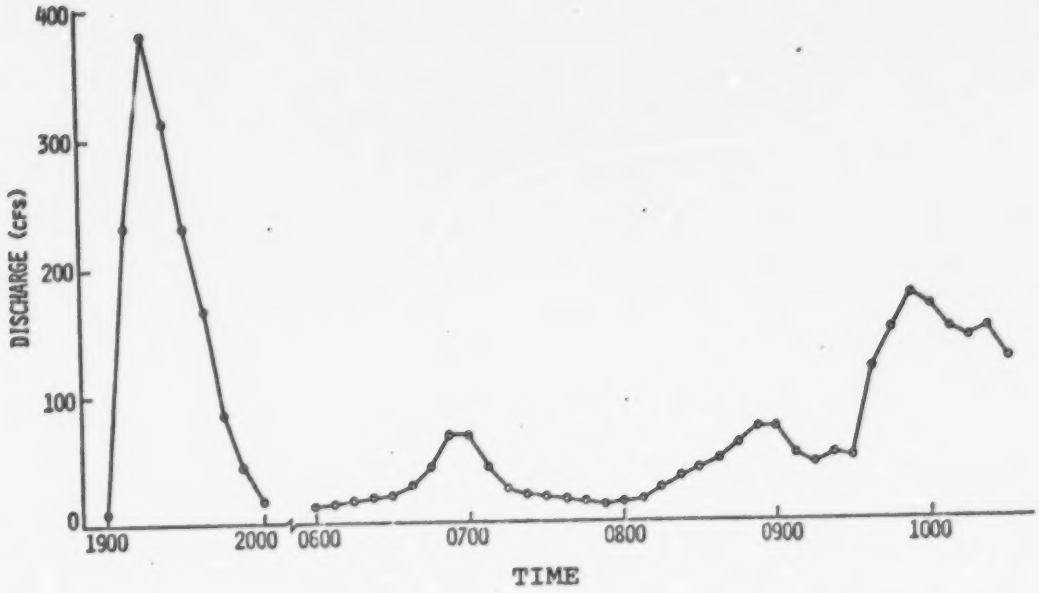


Figure 6-262 RAIN OF JULY 23 & 24, 1971
WOODWARD RAINGAGE
HYETOGRAPHS

Table 6-72 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 24, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage	Woodward Gage								
1907:30	-	-	-	232	-	632	416	107	927	6.95	105
1915	-	-	-	381	-	953	712	102	757	6.80	53
1922:30	-	-	-	314	-	1090	821	110	600	6.50	22
1930	-	-	-	232	-	335	214	94	357	6.50	20
1937:30	-	-	-	167		554	327	96	534	6.40	19
1945	-	-	-	86	748	509	329	84	590	6.85	20
0937:30	.12	.096	.06	118	796	229	111	97	300	6.85	19
0945	.12	.096	.06	149	-	98	71	86	200	6.95	20
0952:30	.12	-	.18	176	-	110	82	103	143	6.90	21
1000	-	-	.18	167	427	256	126	87	137	7.10	16
1007:30	-	.30	-	149	392	134	98	67	170	7.75	18
1015	-	-	-	142	348	157	124	71	200	7.95	18
1022:30	.84	-	.30	149	327	162	127	62	137	8.35	20
1030	.12	-	.60	125	306	146	116	28	267	8.35	22
1037:30	-	.48	.06	185	527	306	210	52	202	8.75	28
1045	.12	.48	.24	282	541	229	214	50	184	8.70	20
1052:30	-	.12	.06	261	329	167	102	55	184	8.65	19
1100	-	.12	.24	232	381	125	78	56	176	8.20	22
1107:30	.12	.06	.114	203	376	103	70	40	119	8.40	22
1115	.12	.036	.114	167	341	176	79	58	176	8.05	20
1122:30	.12	.036	.114	125	316	175	79	58	155	8.30	20
1130	.12	.036	.036	95	321	197	36	78	162	8.10	19
1137:30	-	.036	.048	86	348	145	128	51	162	8.20	20
1145	-	.036	-	77	300	192	162	112	194	7.45	19



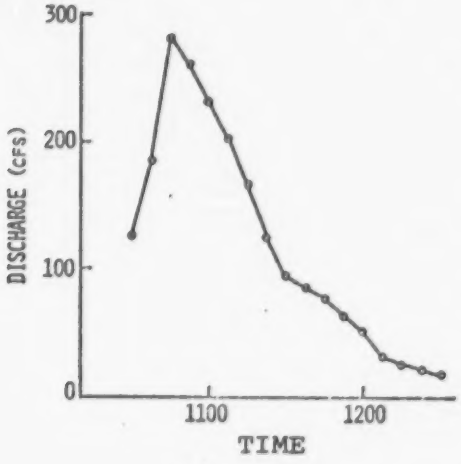


Figure 6-263 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 23 & 24, 1971
MONITORING STATION: OUTLET -
10' x 15' SEWER

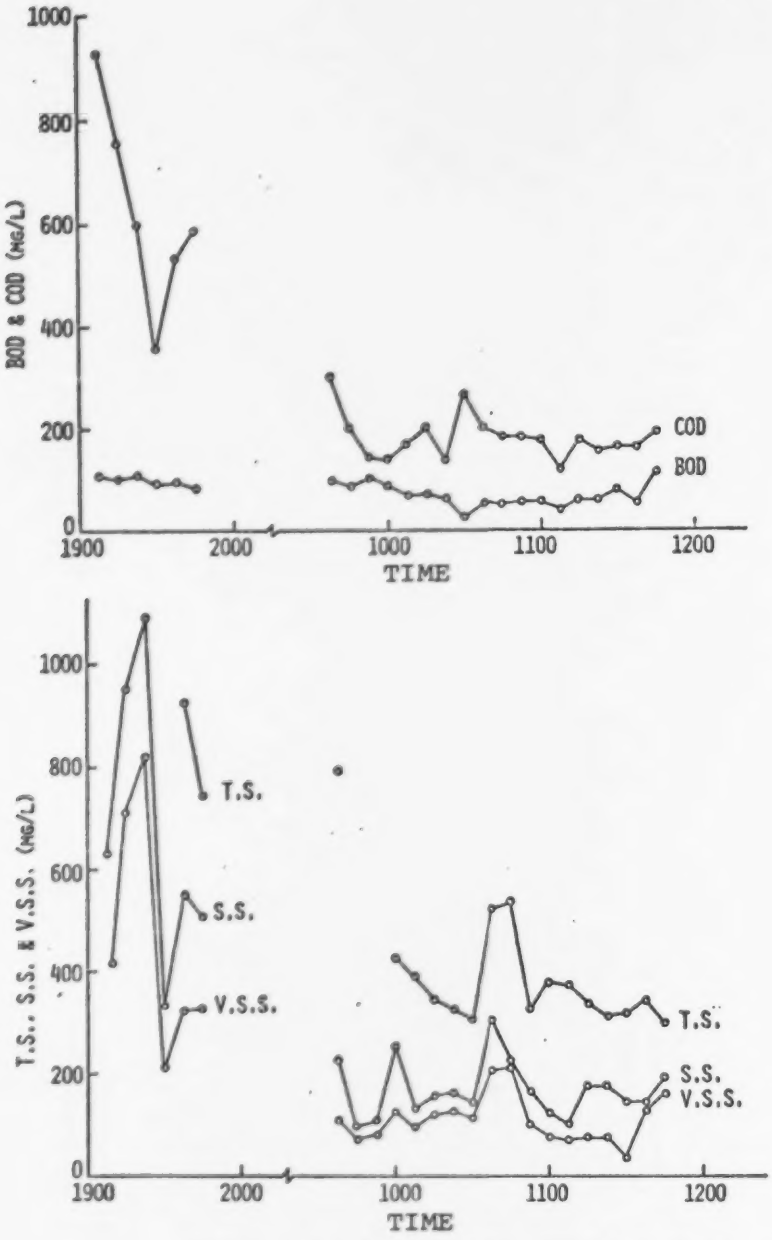


Figure 6-264 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 23 & 24, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

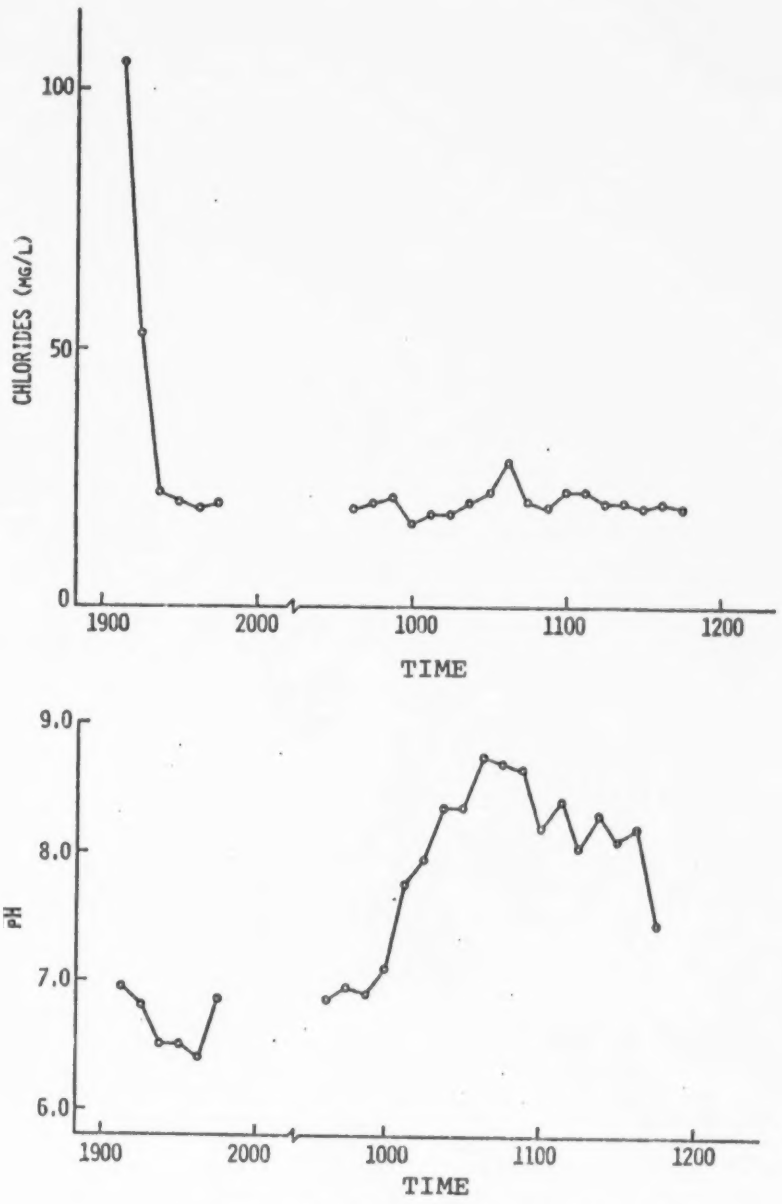


Figure 6-265 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 23 & 24, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-73 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 24, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage								
0152:30	-	-	9.5	-	-	-	-	-	-	-
0200	-	-	10.6	496	373	168	147	860	6.70	8.0
0202:30	.40	-	13.0	-	-	-	124	750	6.50	3.0
0215	.40	-	19.6	789	486	212	130	657	6.45	6.0
0222:30	.40	-	16.0	475	273	144	131	260	6.60	3.0
0230	.40	-	13.0	521	262	101	94	273	6.65	5.0
0237:30	-	-	10.6	529	326	127	91	293	6.50	5.0
0245	-	-	13.0	410	131	78	62	243	6.60	5.0
0252:30	-	-	19.6	307	79	42	70	113	6.65	4.0
0300	-	-	27.0	341	75	46	67	93	6.85	5.0
0307:30	-	.12	22.8	371	107	65	25	134	6.95	3.0
0315	.12	.036	13.0	298	138	72	58	100	6.95	2.0
0322:30	.12	.036	19.6	276	139	76	86	146	6.95	3.0

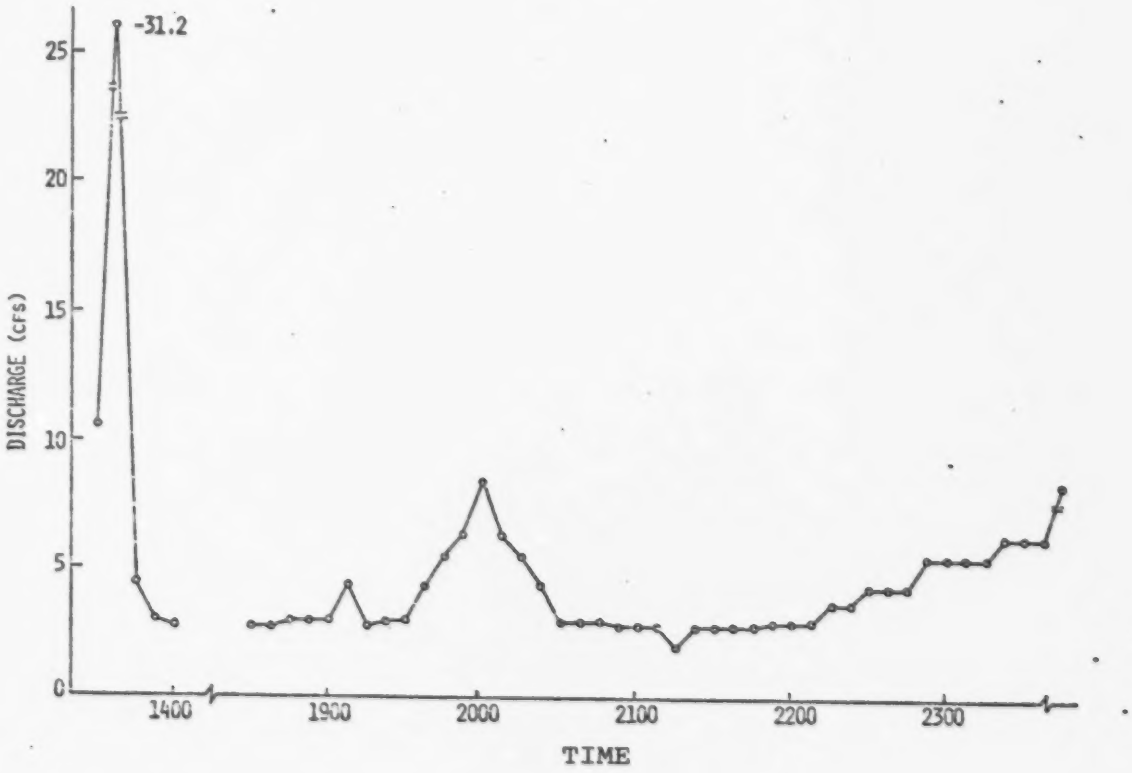


Figure 6-266 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 23, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

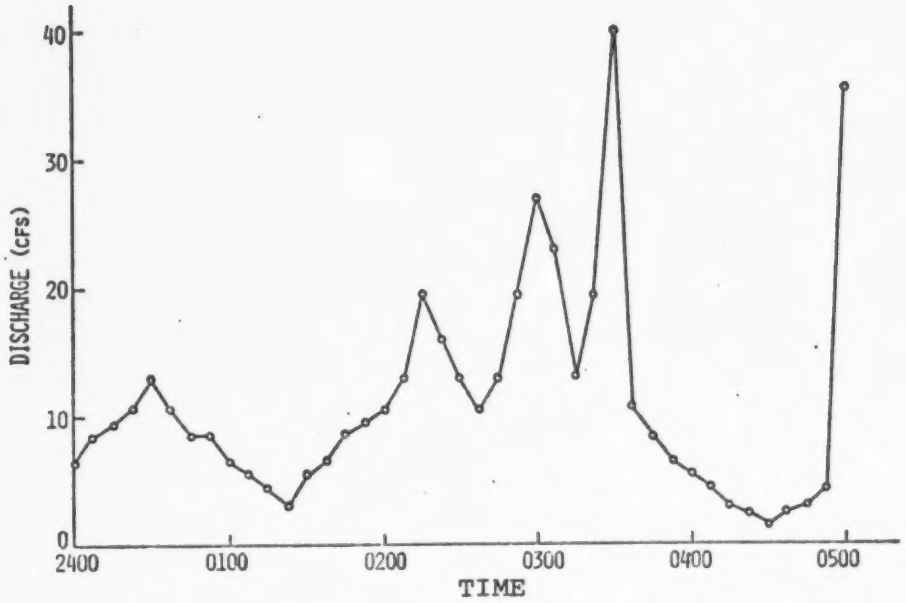


Figure 6-267 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 24, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

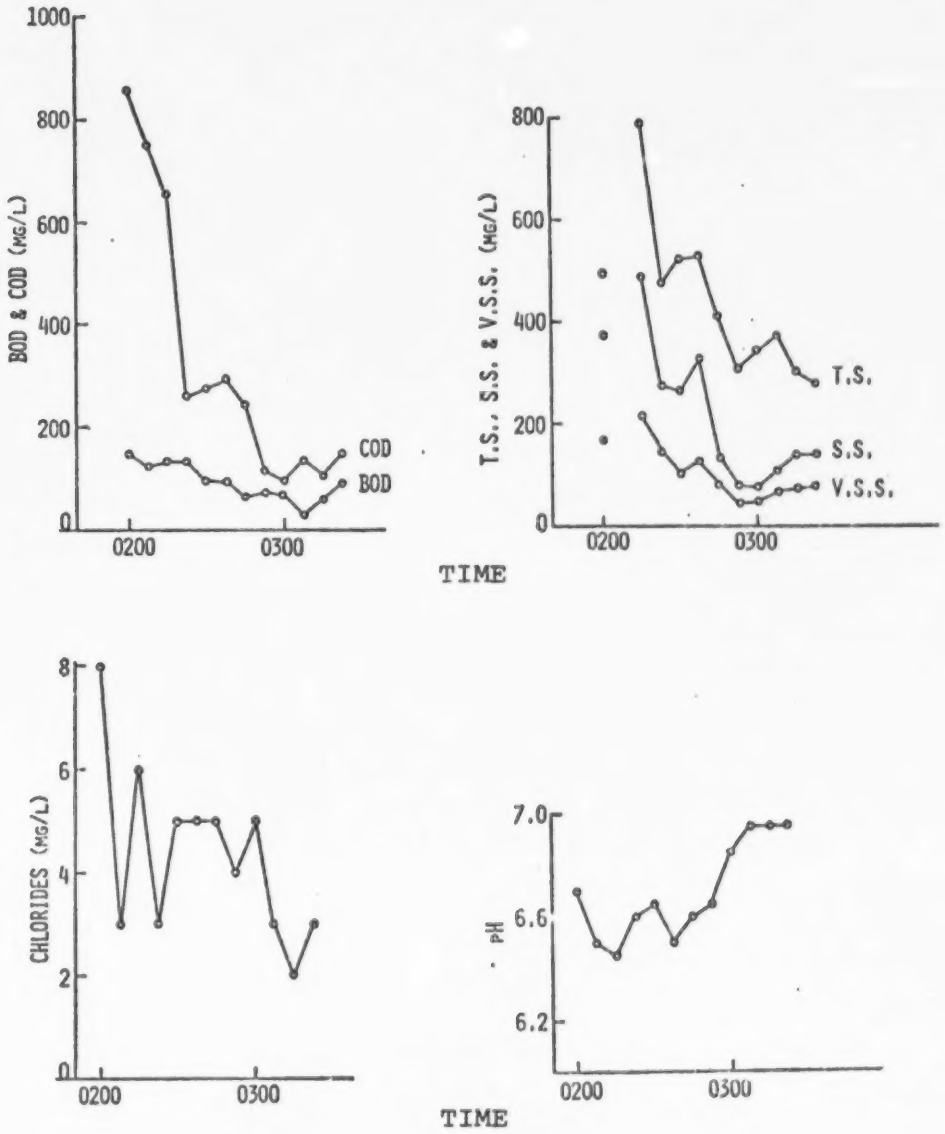
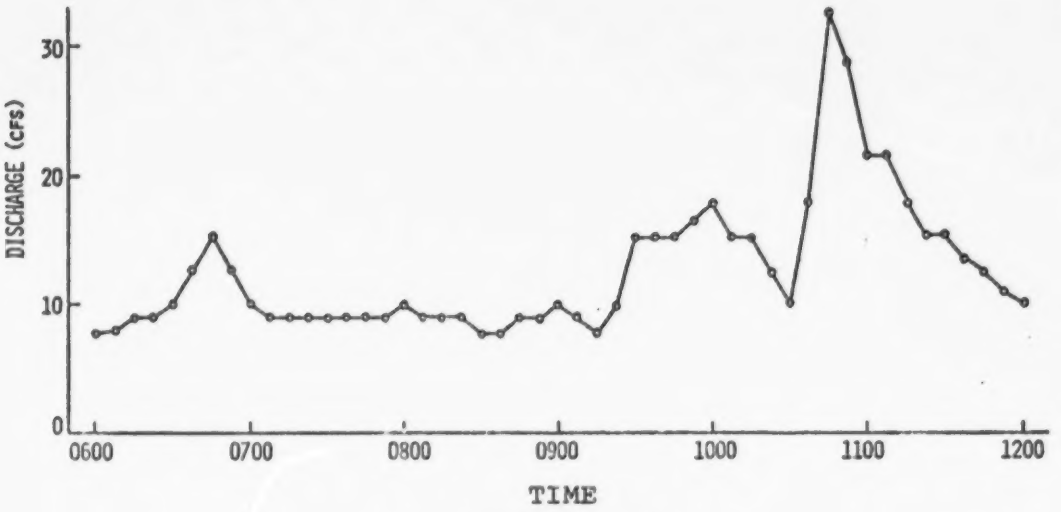
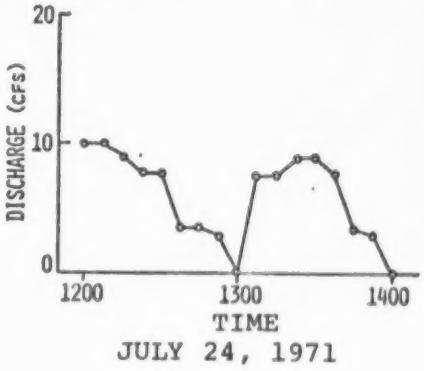


Figure 6-268 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 24, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER





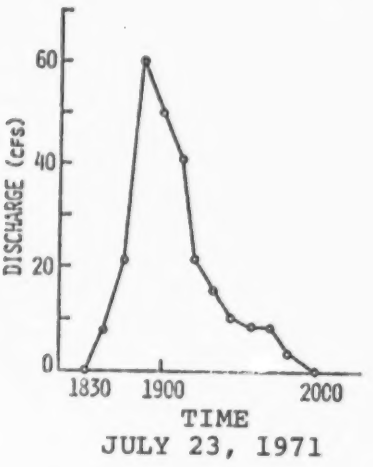


Figure 6-269 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 23 & 24, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

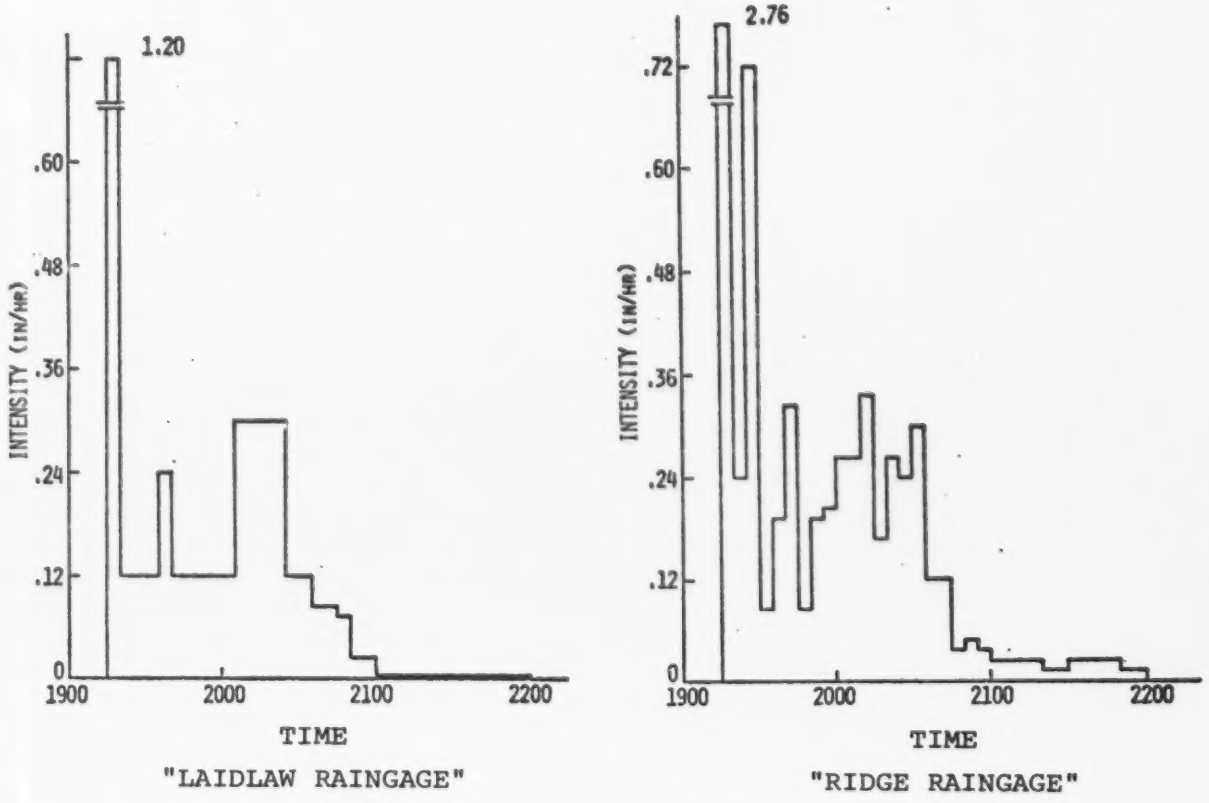


Figure 6-270 RAINFALL OF JULY 28, 1971
HYETOGRAPHS

Table 6-74 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 28, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage								
1845	-	-	34	-	-	-	-	-	-	-
1852:30	-	-	608	-	-	-	-	-	-	-
1900	-	-	568	-	754	348	152	920	6.52	7
1907:30	-	-	452	-	435	221	133	687	8.05	6
1915	-	-	370	-	-	-	-	-	-	-
1922:30	.12	.24	325	-	544	300	152	470	6.80	4
1930	.12	.72	303	-	363	189	138	275	6.95	4
1937:30	.24	.192	293	-	245	120	103	288	7.15	4
1945	.12	.325	315	-	171	107	96	215	7.15	2
1952:30	.12	.192	370	-	65	34	98	141	6.85	3
2000	.12	.204	392	-	136	72	85	150	6.95	3
2007:30	.30	.264	370	324	133	70	116	141	7.15	3
2015	.30	.34	315	176	93	45	48	103	6.82	2
2022:30	.30	.17	261	148	64	38	40	90	6.88	4
2030	.12	.24	212	129	57	26	47	90	6.80	6
2037:30	.084	.12	167	199	85	39	70	141	6.80	8
2045	.084	.12	105	321	147	72	44	141	6.65	12
2052:30	.024	.05	68	348	99	48	118	172	6.82	10
2100	-	.025	37.5	-	-	-	147	172	6.95	3
2107:30	-	.025	28.9	-	-	-	122	272	7.90	2

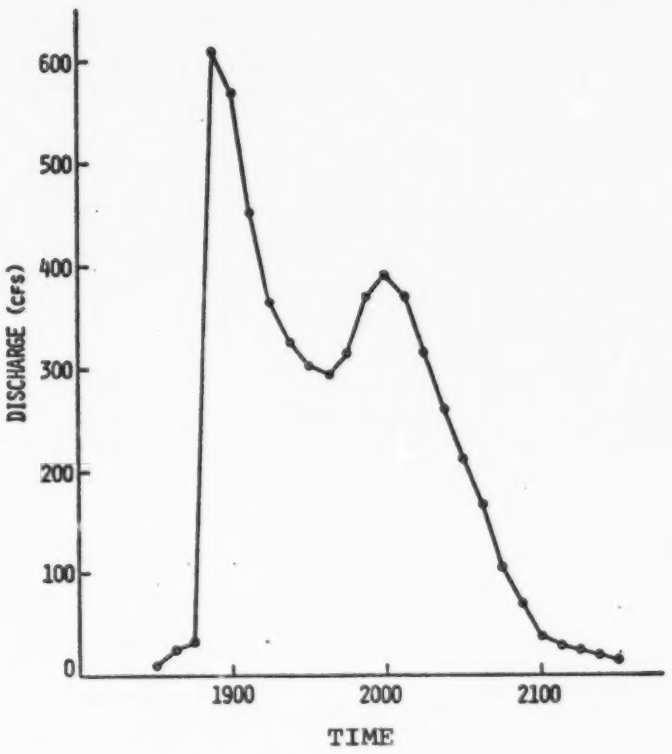


Figure 6-271 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 28, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

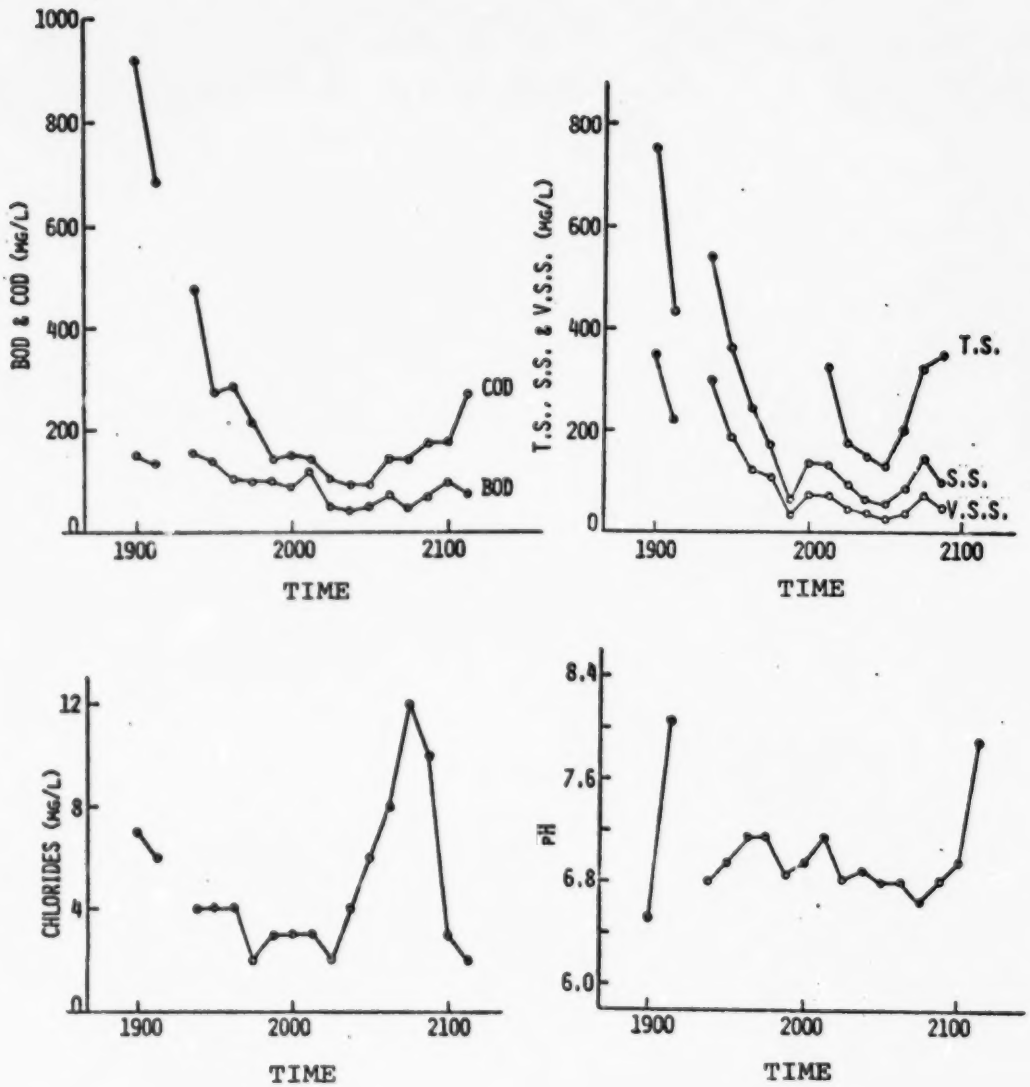


Figure 6-272 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 28, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-75 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: July 28, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage								
1837:30	-	-	4.5	1927	1089	716	-	693	10.0	5
1845	-	-	10.6	1211	578	318	-	462	6.55	3
1852:30	-	-	35.7	726	372	271	152	210	6.50	3
1900	-	-	173.0	892	274	186	133	315	6.60	2
1907:30	-	-	115.0	496	389	192	-	210	7.40	2
1915	1.20	2.76	70.0	514	170	101	-	143	6.85	2
1922:30	.12	.24	35.7	528	177	114	-	130	6.90	3
1930	.12	.72	35.7	576	104	75	-	76	6.85	3
1937:30	.24	.192	40.0	592	61	41	-	46	6.80	2
1945	.12	.324	50.0	312	62	40	-	63	6.90	3
1952:30	.12	.086	55.0	401	107	48	-	92	6.95	4
2000	.12	.204	55.0	277	47	14	-	92	6.80	2
2007:30	.30	.264	40.0	281	75	23	-	76	6.85	3
2015	.30	.336	27.0	292	56	22	-	138	6.82	2
2022:30	.30	.264	22.8	231	61	31	-	76	6.85	5
2030	.12	.24	16.0	244	91	34	-	76	6.75	4
2037:30	.084	.12	13.0	273	83	29	-	67	6.75	2
2045	.084	.12	10.6	211	46	16	-	76	7.10	4
2052:30	.024	.046	9.6	244	83	40	-	63	6.70	5
2100	.024	.036	9.6	216	82	28	-	84	6.60	7
2107:30	.003	.024	8.5	218	73	21	-	84	7.15	7
2115	.003	.024	8.5	-	-	-	-	-	-	-
2122:30	.003	.012	7.4	-	-	-	-	-	-	-
2130	.003	.024	6.4	-	-	-	-	-	-	-

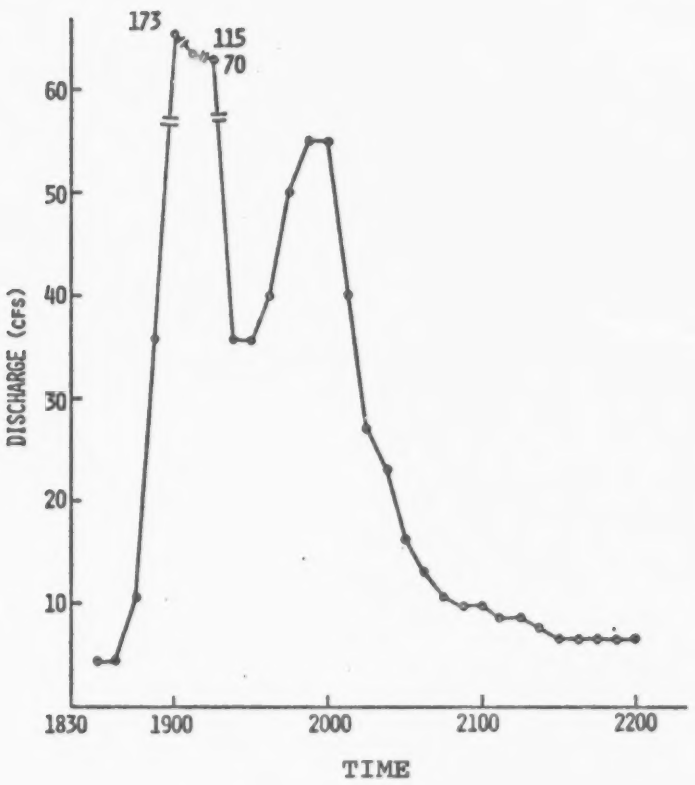


Figure 6-273 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 28, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

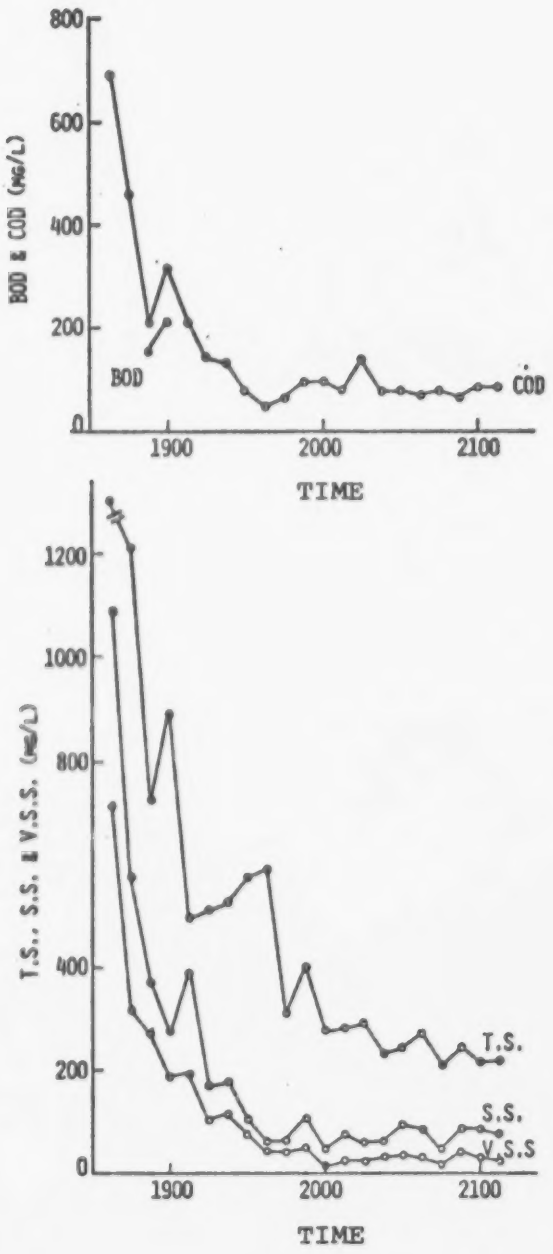


Figure 6-274 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 28, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

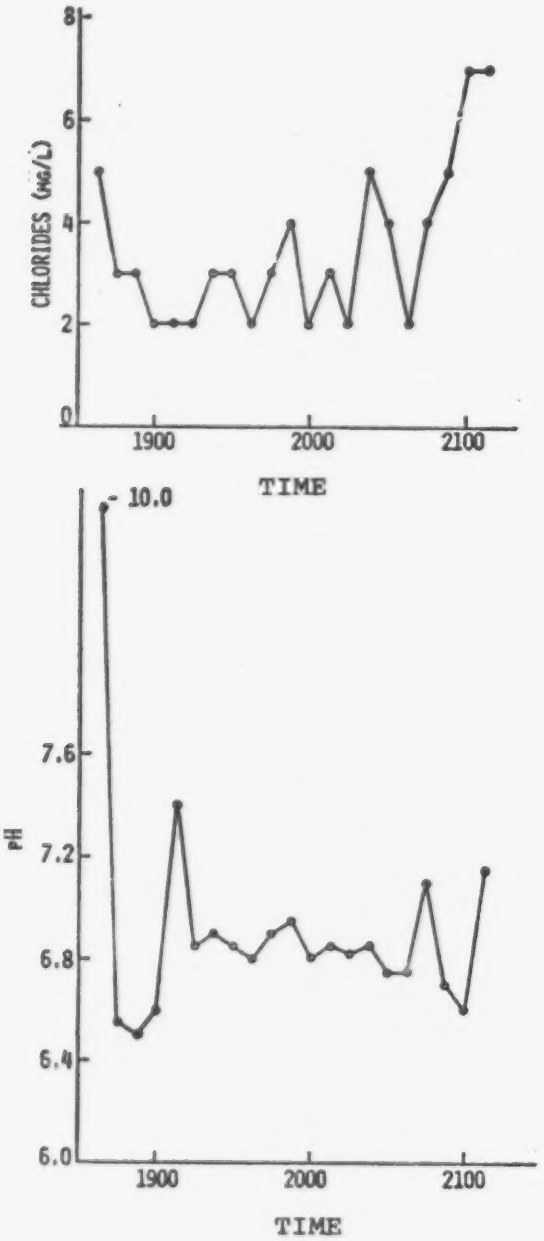


Figure 6-275 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 28, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

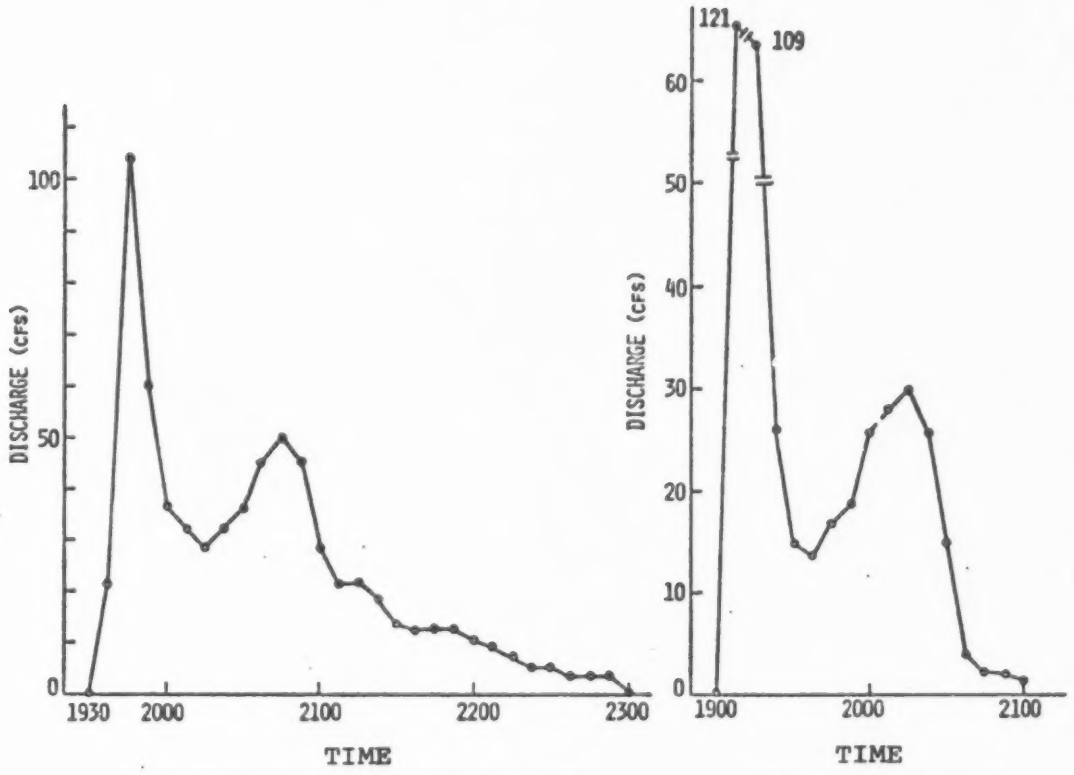


Figure 6-276 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: JULY 28, 1971

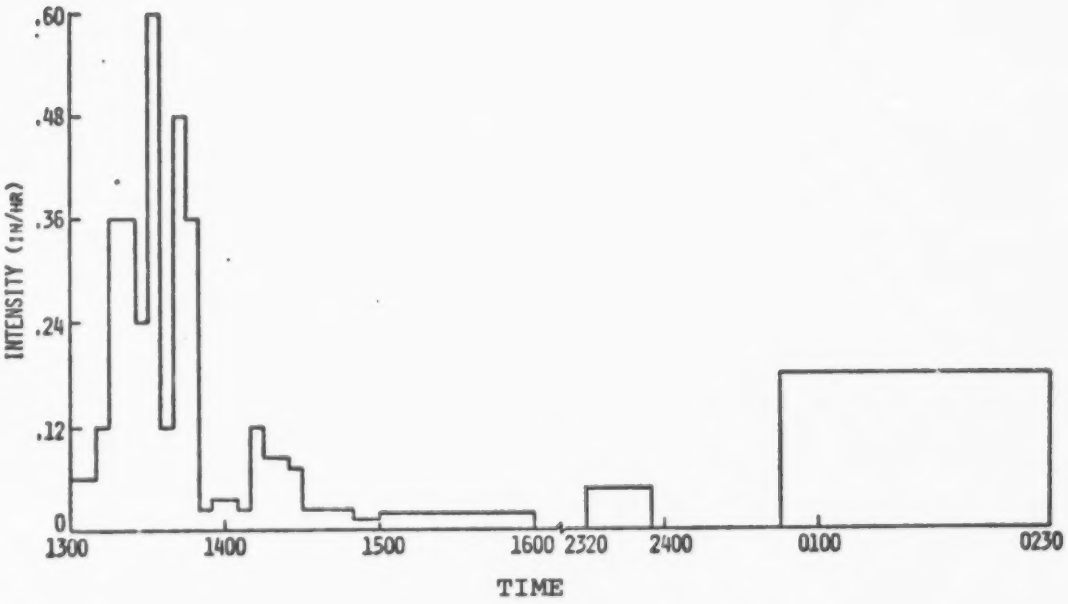


Figure 6-277 RAIN OF AUG. 3 & 4, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

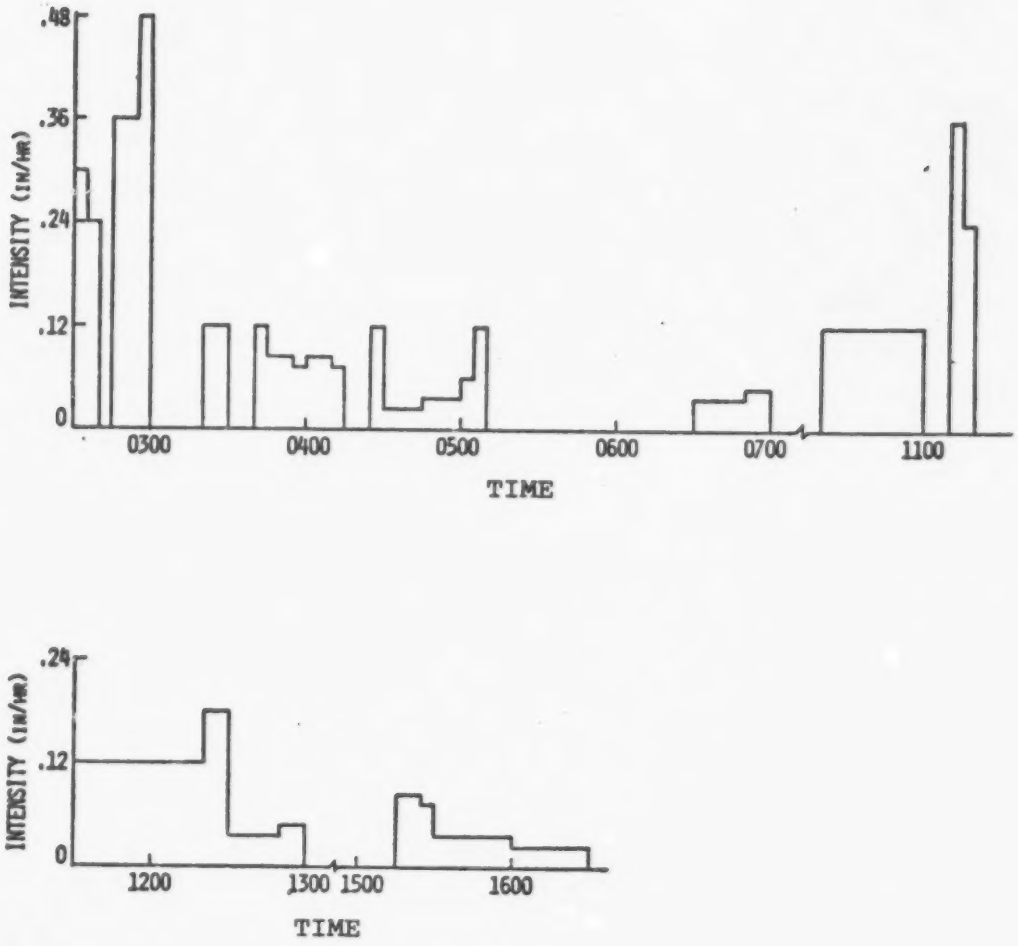


Figure 6-278 RAINFALL OF AUG. 4, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

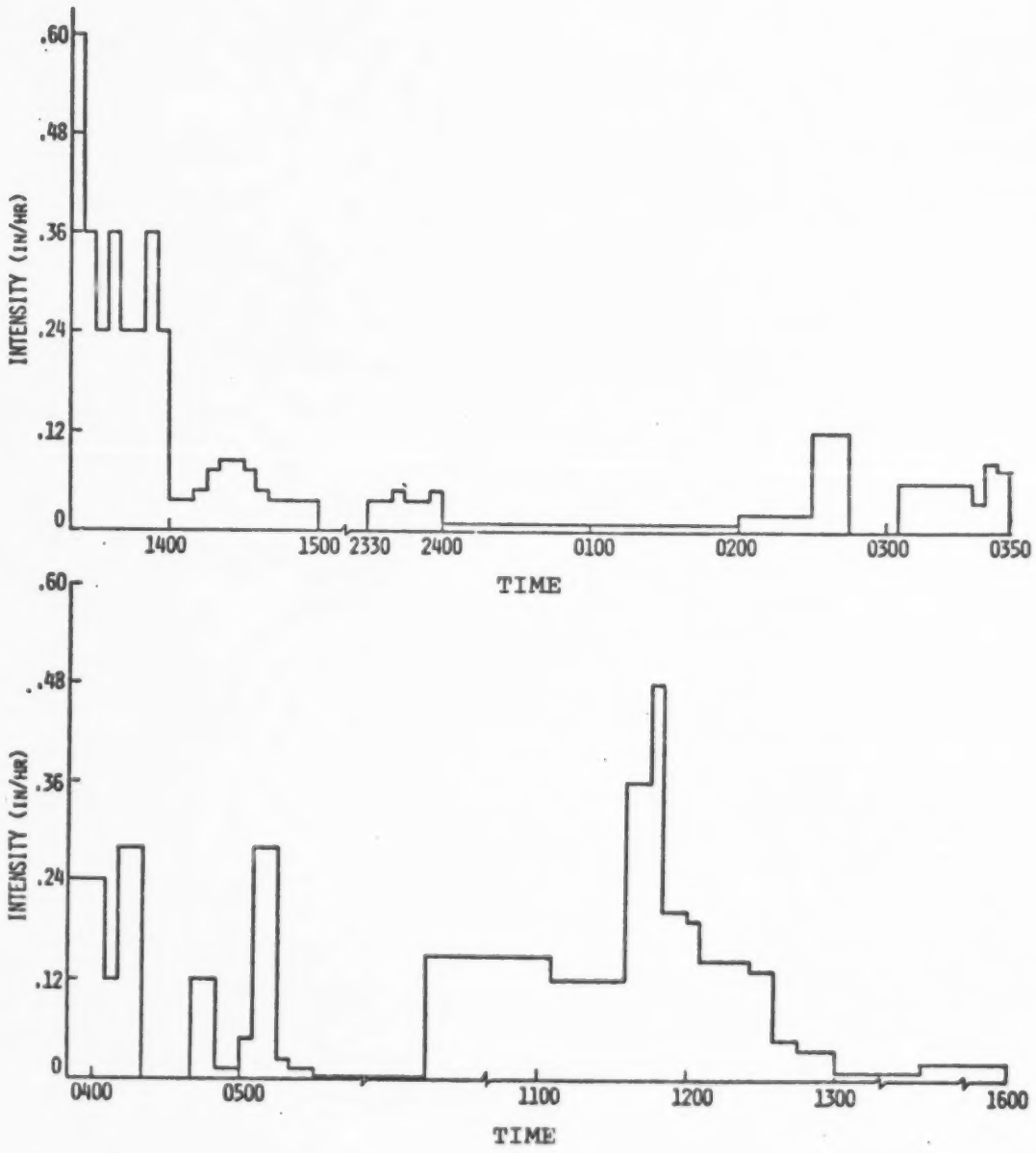


Figure 6-279 RAIN OF AUG. 3 & 4, 1971
RIDGE RAINGAGE
HYETOGRAPH

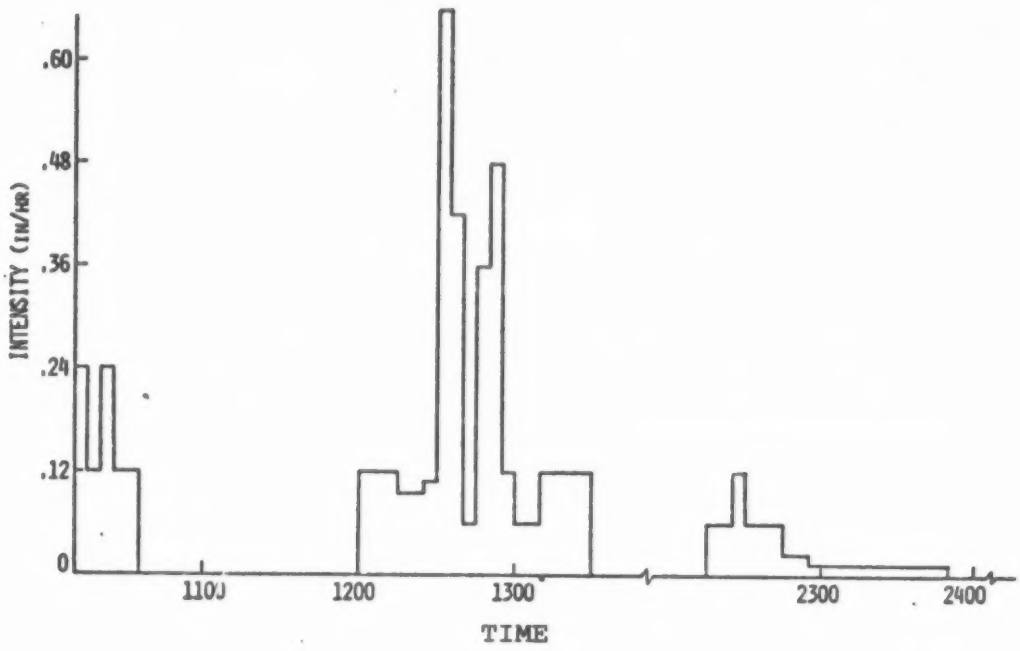
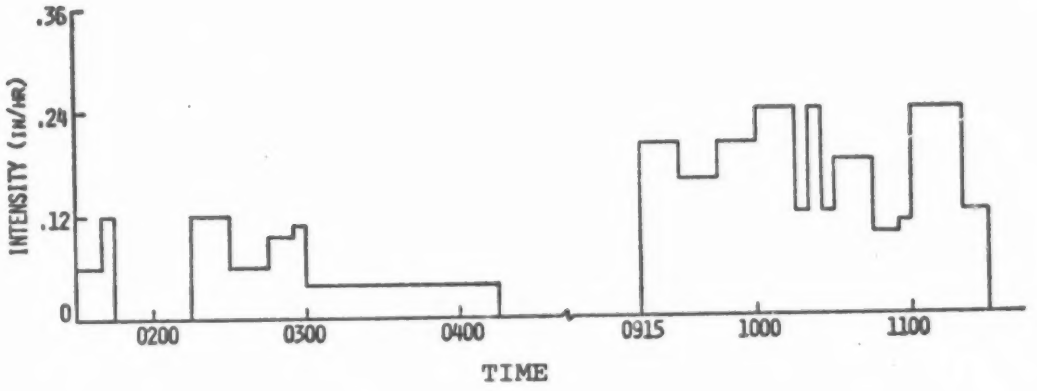


Figure 6-280 RAINFALL OF AUG. 3, 1971
WOODWARD RAINGAGE
HYETOGRAPH



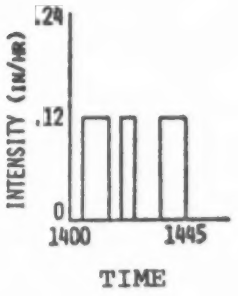


Figure 6-281 RAINFALL OF AUG. 4, 1971
WOODWARD RAINGAGE
HYETOGRAPH

Table 6-76 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 4, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage								
1015	-	.120	.147	-	-	-	-	-	-	-	-
1022:30	.120	.240	.147	18	-	-	-	167	620	6.75	50
1030	.120	.180	.147	30	1086	-	-	148	480	6.50	64
1037:30	.120	.180	.147	117	917	-	-	156	340	6.55	43
1045	.120	.100	.147	237	928	-	-	139	280	6.85	25
1052:30	.120	.100	.147	315	924	-	-	94	224	6.75	16
1100	-	.240	.147	325	782	-	-	67	200	6.60	22
1107:30	-	.240	.120	325	756	-	-	69	160	6.48	21
1115	.240	.240	.120	282	723	312	71	65	220	6.65	20
1122:30	-	.240	.120	279	781	381	64	65	312	6.80	24
1130	.120	0.0	.120	267	654	256	86	42	220	6.70	24
1137:30	.120	-	.360	267	712	324	127	34	248	6.50	22
1145	.120	-	.360	267	541	317	124	30	280	6.70	25
1152:30	.120	-	.200	267	522	312	112	23	200	6.80	15
1200	.120	-	.190	282	488	289	167	30	200	6.90	30
1207:30	.120	-	.140	298	417	227	128	31	200	6.50	25
1215	.120	-	.140	298	415	216	119	28	220	6.25	25
1222:30	.180	-	.140	282	421	224	139	58	192	6.70	25
1230	.035	-	.130	267	621	289	125	53	188	6.90	30
1237:30	.035	-	.05	222	711	216	106	70	220	7.10	18
1245	.035	-	.04	180	407	241	124	84	212	6.70	18
1252:30	.035	-	.04	150	418	181	72	109	256	7.35	36
1300	-	-	.01	92	-	-	-	-	160	7.35	40
1307:30	-	-	.01	44	-	-	-	-	-	-	-

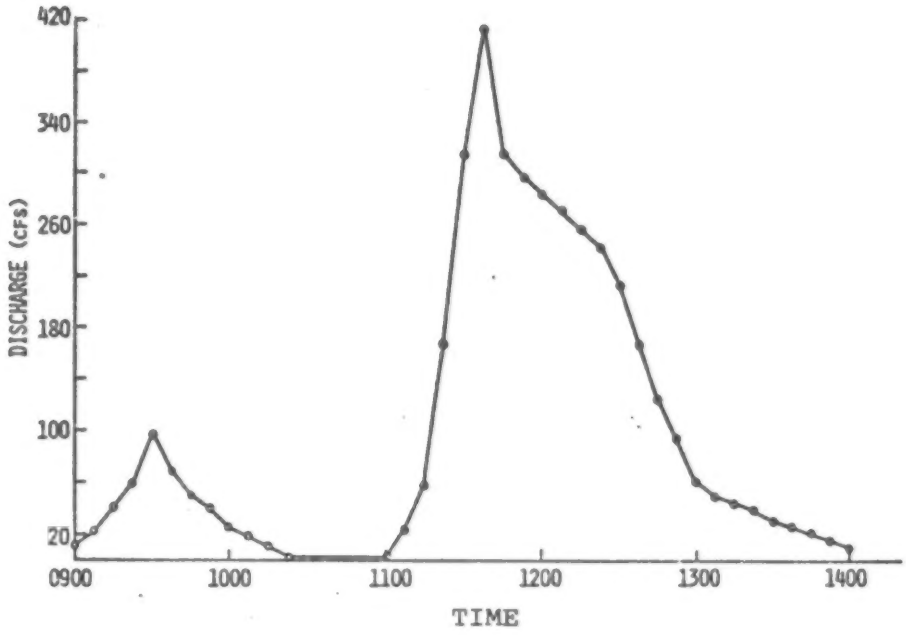


Figure 6-282 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 3, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

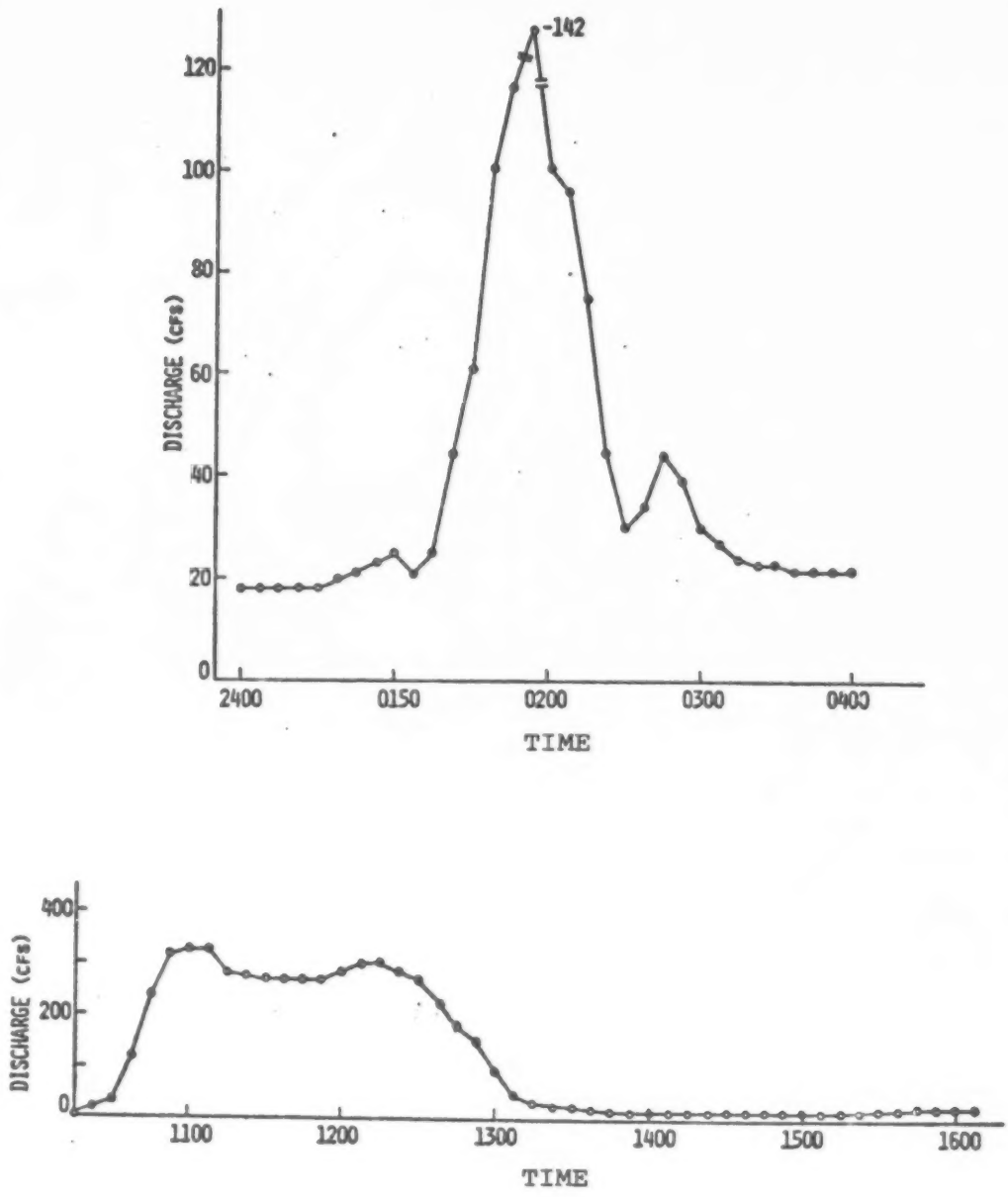
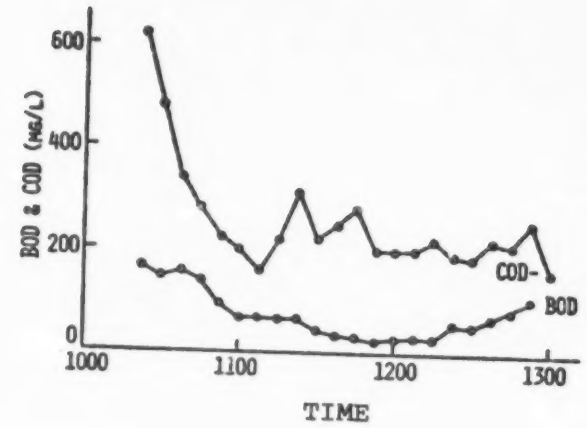


Figure 6-283 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER



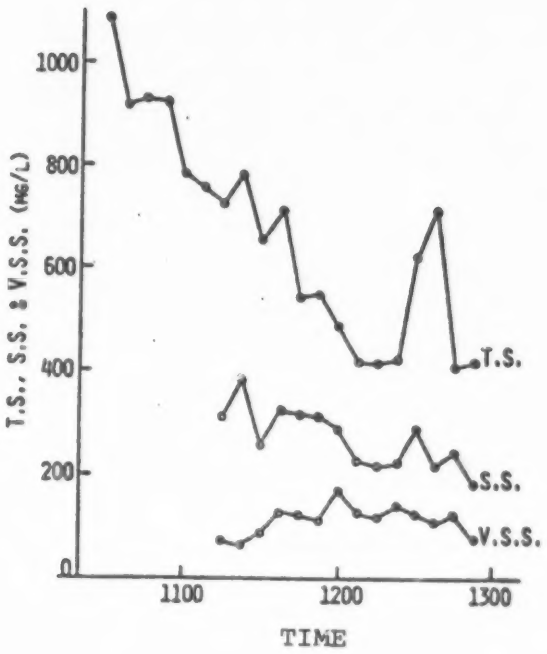
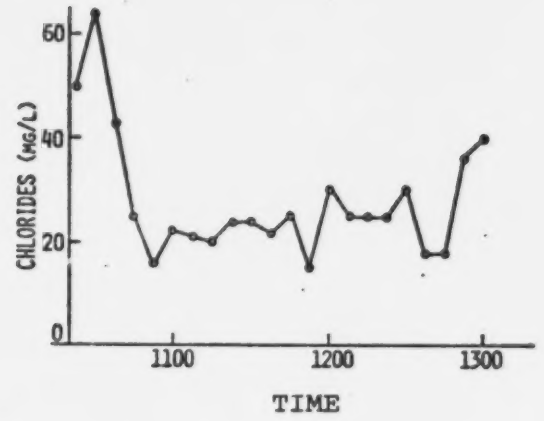


Figure 6-284 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER



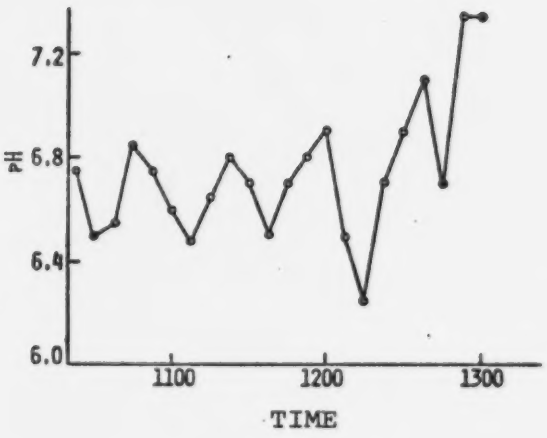


Figure 6-285 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-77 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 4, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage							
0922:30	-	.20	-	-	317	112	46	122	412	7
0930	-	.20	-	-	466	200	72	110	284	5
0937:30	-	.16	-	.5	-	-	-	29	188	3
0945	-	.16	-	.5	512	252	116	60	240	4
0952:30	-	.20	.003	-	428	216	107	48	240	6
1000	-	.20	.003	11	416	139	94	36	108	6
1007:30	-	.24	.003	7.5	423	143	86	20	144	4
1015	-	.24	.003	7.5	478	156	72	17	128	7
1022:30	.12	.24	.15	7.5	416	140	70	36	92	8
1030	.12	.12	.15	7.5	407	134	63	38	64	4
1037:30	.12	.18	.15	9	381	83	12	53	64	6
1045	.12	.18	.15	11	352	70	27	-	56	10
1052:30	.12	.096	.15	18	314	65	16	53	128	12

Table 6-78 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 4, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage							
1100	.12	.108	.15	321	-	-	-	137	230	5
1107:30	-	.24	.12	15	134	68	16	133	135	5
1115	.36	.24	.12	9	131	66	19	128	154	4
1122:30	.24	.12	.12	8.8	132	66	17	96	96	4
1130	-	-	.12	8.7	135	65	18	-	84	2
1137:30	.12	-	.36	8.7	138	60	14	41	69	3
1145	.12	-	.36	8.7	135	77	12	55	115	3
1152:30	.12	-	.204	8.7	171	73	26	56	115	2
1200	.12	-	.204	8.6	100	51	22	42	77	2
1207:30	.12	-	.144	8.7	110	24	14	30	77	4
1215	.12	-	.144	8.7	141	31	12	23	96	3
1222:30	.18	-	.144	-	127	43	11	37	80	6
1230	.18	-	.132	-	171	47	27	54	88	8
1237:30	.036	-	.048	-	148	52	29	37	114	4
1245	.036	-	.048	-	162	61	31	36	115	5
1252:30	.048	-	.036	-	172	66	34	56	135	7
1300	.048	-	.036	-	149	56	26	52	88	9
1307:30	-	-	.009	-	161	54	20	57	77	12
1315	-	-	.009	-	137	51	14	-	77	8
1322:30	-	-	.009	-	-	54	7	-	91	14
1330	-	-	.009	-	-	-	-	100	142	18

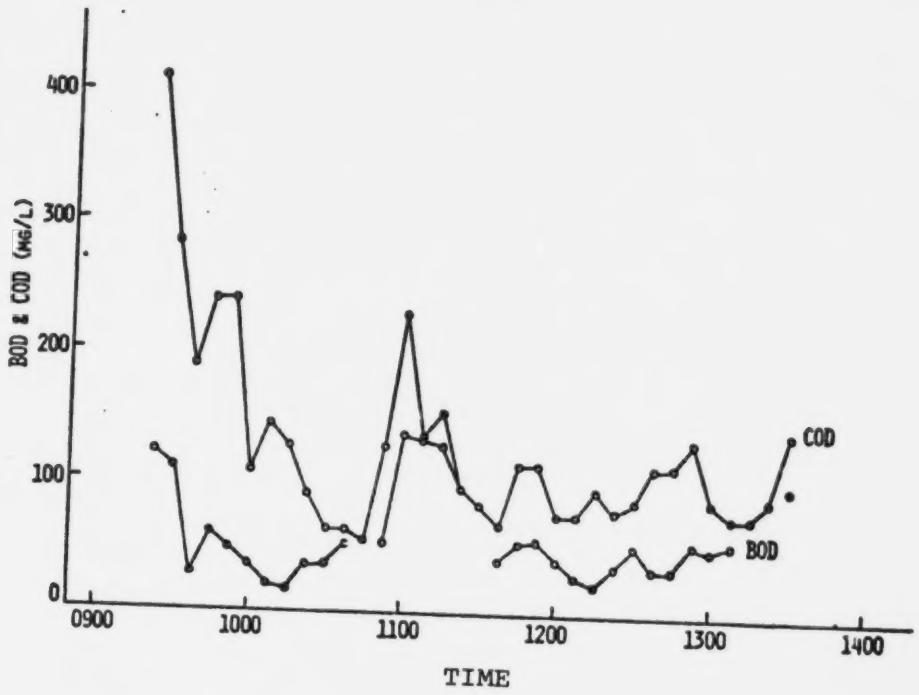
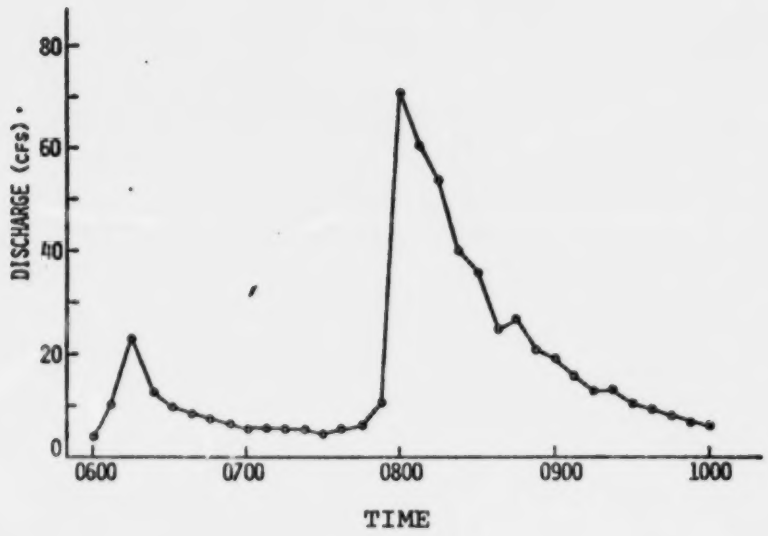


Figure 6-287 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER



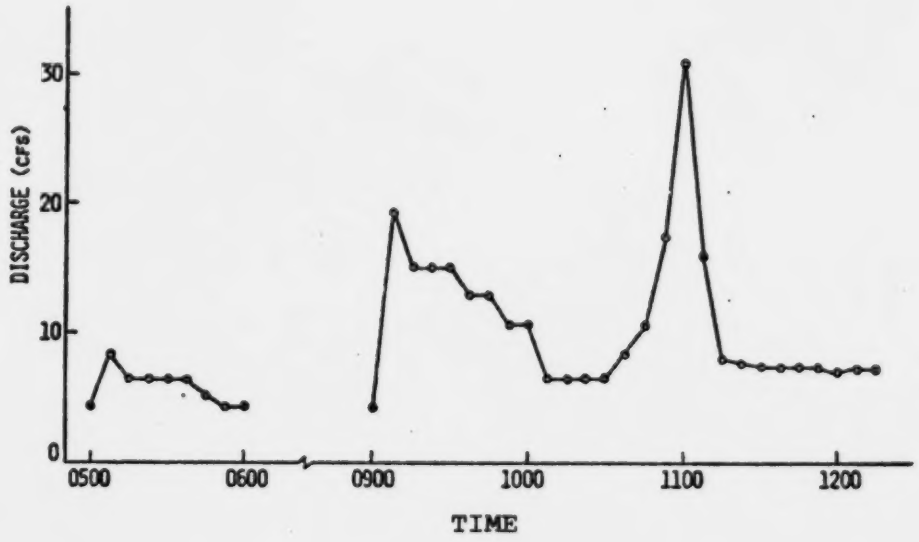


Figure 6-286 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 3 & 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

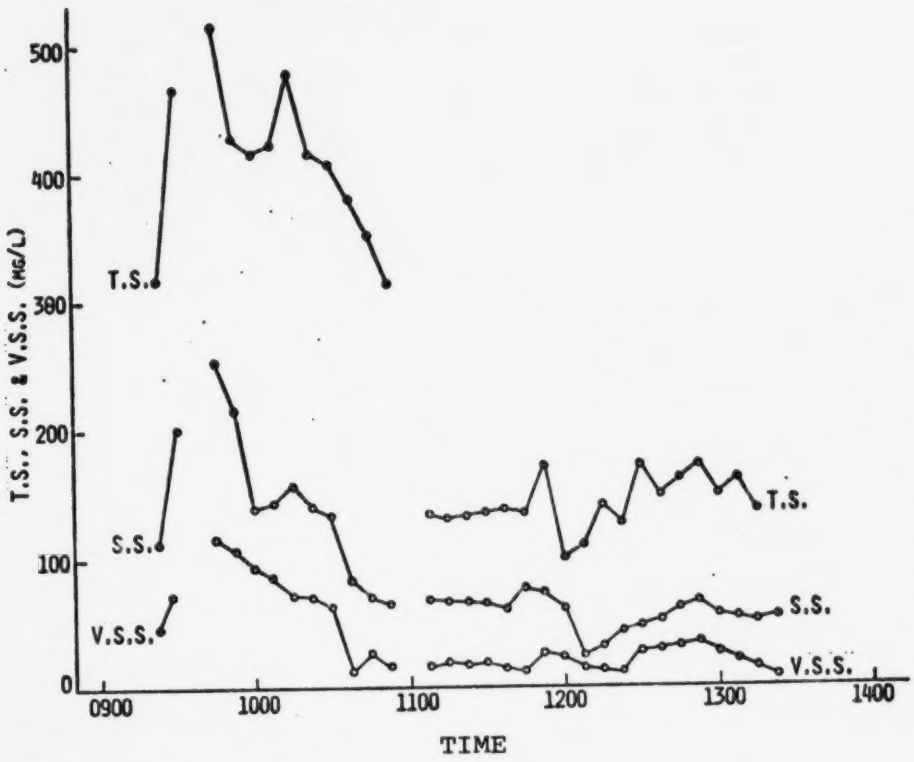


Figure 6-288 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

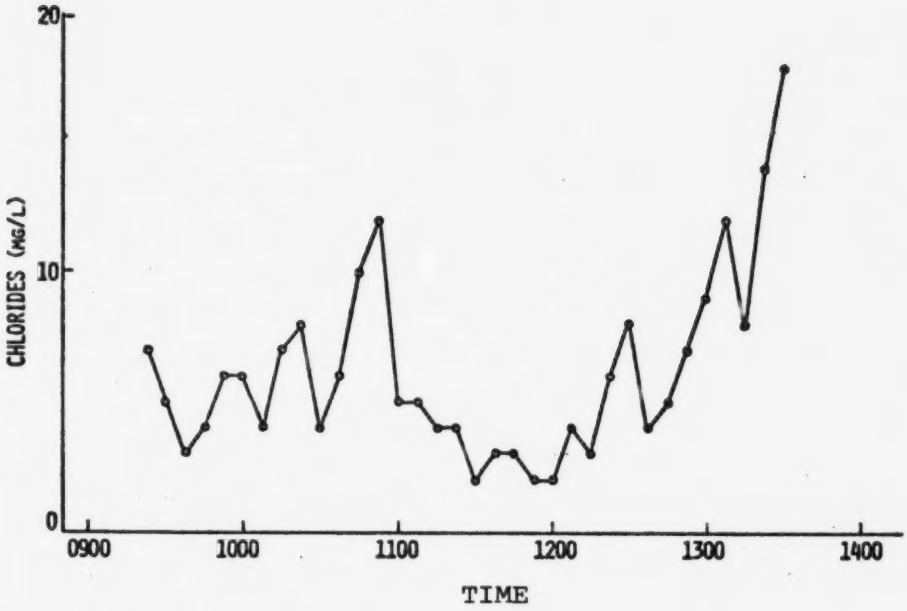


Figure 6-289 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

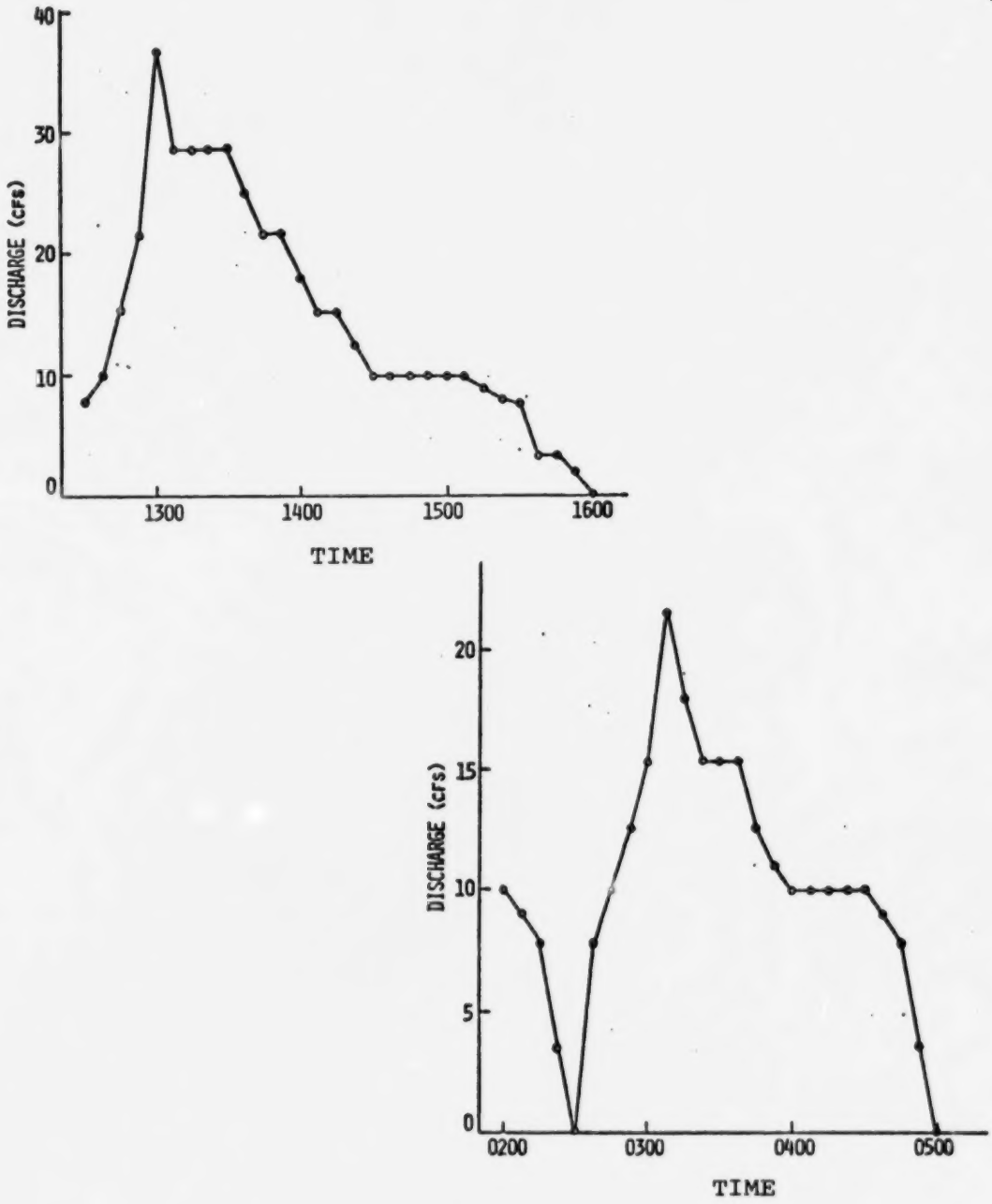


Figure 6-290 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 3 & 4, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

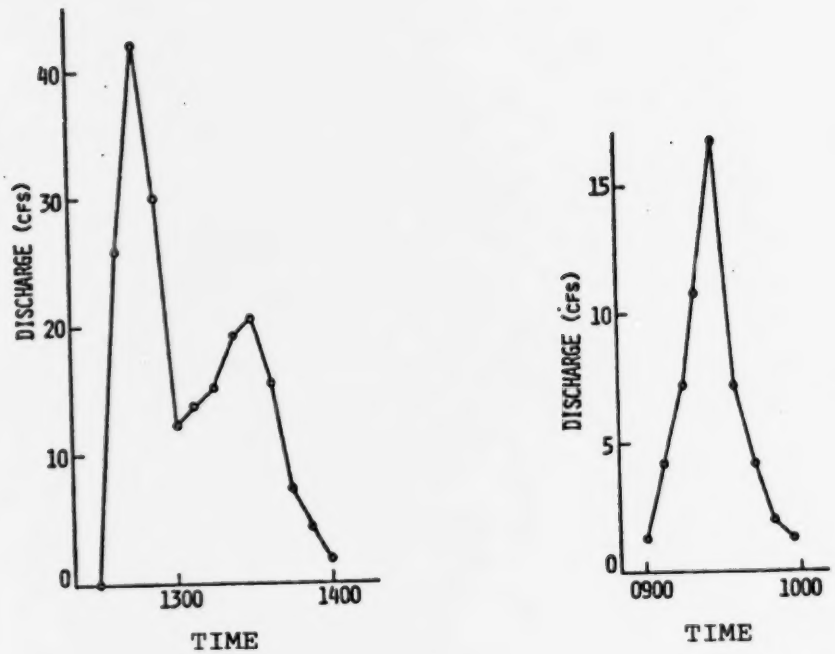


Figure 6-291 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 3 & 4, 1971
MONITORING STATION: BANK
78" SEWER

Table 6-79 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 4, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage								
852:30	-	-	-	-	-	-	-	-	-	-	-
900	-	-	-	-	-	276	104	117	216	9.10	6
907:30	-	-	-	-	-	144	98	90	208	8.92	4
915	-	.200	-	-	325	128	86	-	106	6.85	2
922:30	-	.200	-	-	271	171	121	-	74	6.80	2
930	-	.170	-	-	-	128	88	45	126	6.95	2
937:30	-	.170	-	-	284	101	76	38	85	7.15	5
945	-	.200	-	-	176	78	24	20	85	7.60	3
952:30	-	.200	-	-	189	92	29	-	225	7.85	-
1000	-	.240	-	-	-	86	27	29	140	6.95	2
1007:30	-	.240	-	3.0	226	94	32	32	153	7.30	3
1015	-	.120	.150	5.3	280	70	18	40	140	7.60	5
1022:30	.120	.240	.150	7.0	-	-	-	60	85	7.50	4
1030	.120	.120	.150	12.0	-	-	-	78	-	-	5

Table 6-80 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 4, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage								
1130	.12	-	.12	7.4	-	-	-	60	92	7.55	2
1137:30	.12	-	.36	9.8	-	653	312	85	92	6.95	2
1145	.12	-	.48	11.1	-	197	102	69	88	6.75	3
1152:30	.12	-	.20	9.8	-	129	70	-	88	7.40	3
1200	.12	-	.19	7.4	217	122	54	57	92	7.10	3
1207:30	.12	-	.14	7.4	209	114	51	25	88	6.45	2
1215	.12	-	.14	6.9	-	-	-	27	92	7.50	2
1222:30	.18	-	.14	6.9	-	210	107	32	68	7.30	3
1230	.04	-	.13	6.9	310	180	96	20	56	7.20	5
1237:30	.04	-	.05	5.3	324	178	92	22	80	7.20	3
1245	.04	-	.04	4.5	-	-	-	27	56	7.25	5
1252:30	.05	-	.04	3.8	287	142	78	24	72	7.25	3
1300	-	-	.01	3.0	-	-	-	15	64	7.20	36
1307:30	-	-	.01	2.2	-	-	-	20	80	7.25	-
1315	-	-	.01	1.9	-	-	-	32	204	-	-
1322:30	-	-	.01	1.45	-	-	-	48	216	7.3	4
1330	-	-	.01	1.0	-	-	-	45	140	6.70	3
1337:30	-	-	.01	.75	-	-	-	-	140	7.45	6
1345	-	-	.01	.70	-	-	-	-	-	-	-
1352:30	-	-	.01	.70	-	-	-	49	144	7.10	4
1400	-	-	.01	.40	-	-	-	47	92	-	6
1407:30	-	.12	.01	.43	-	-	-	-	-	-	-
1415	-	-	.01	.70	-	-	-	23	80	7.35	5
1422:30	-	.12	.01	.80	-	-	-	51	72	6.8	8

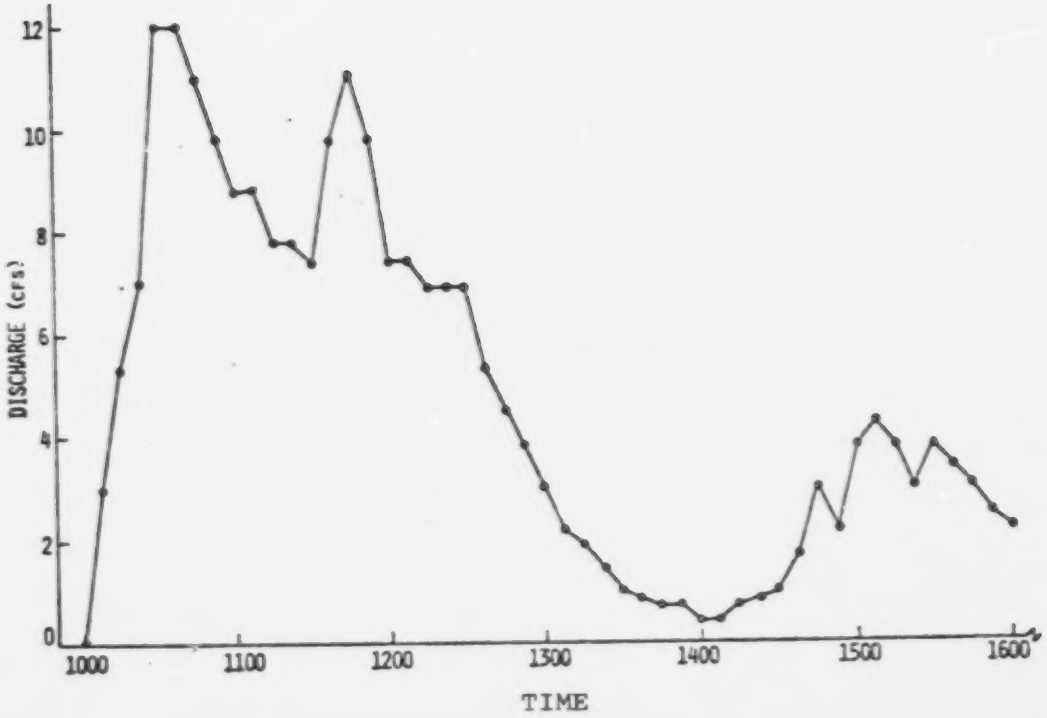


Figure 6-292 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: BANK
54" SEWER

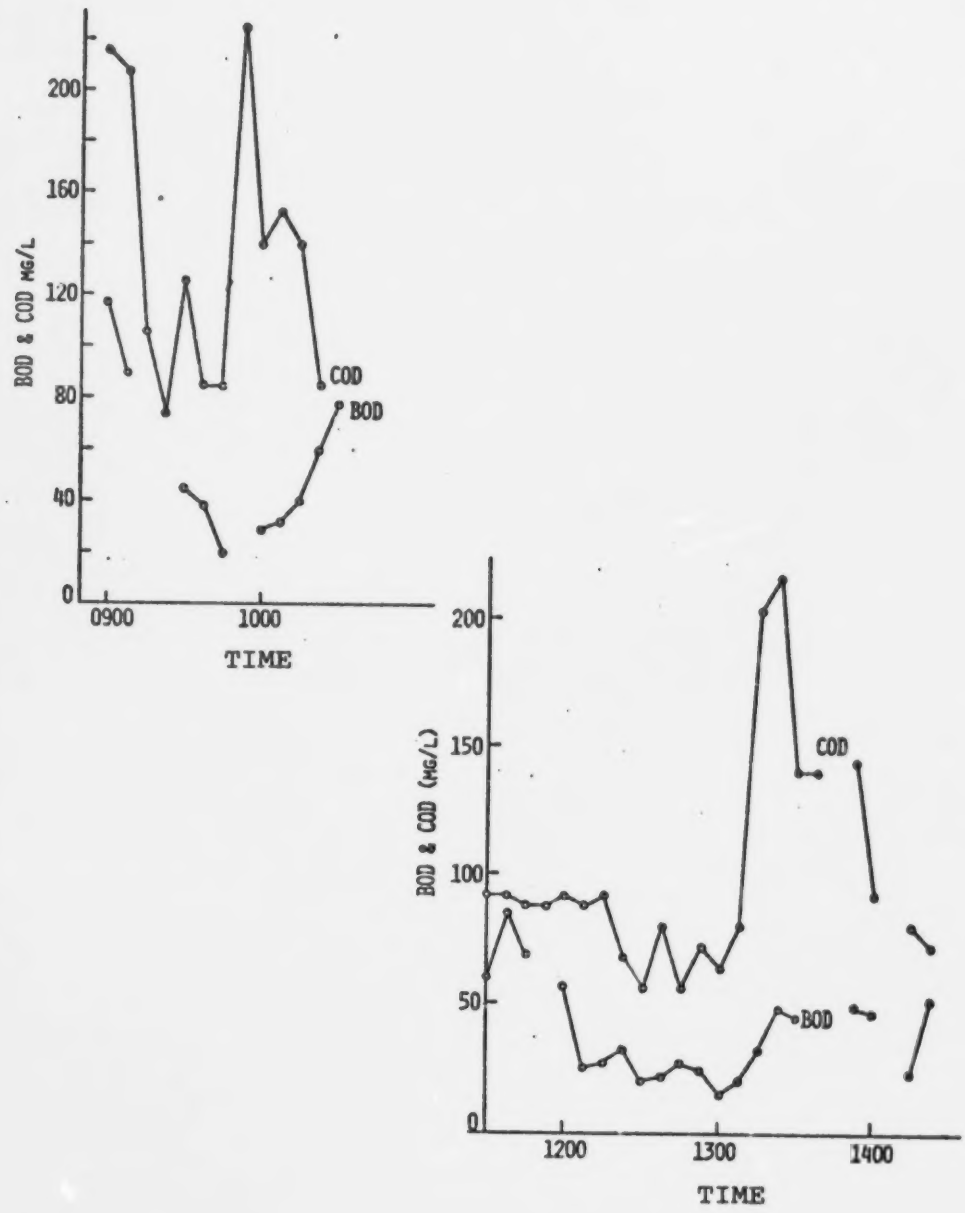
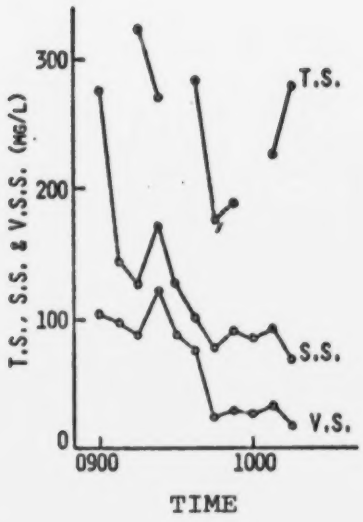


Figure 6-293 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: BANK
54" SEWER



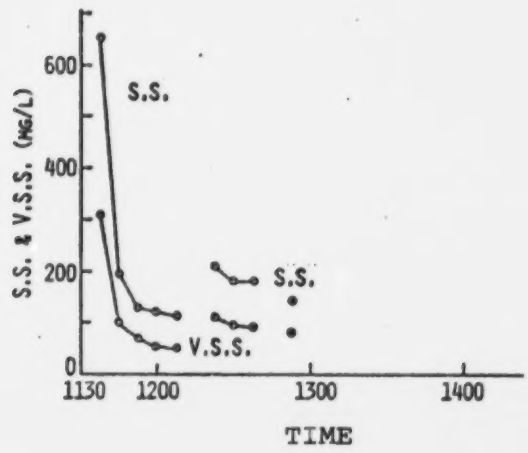


Figure 6-294 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: BANK
54" SEWER

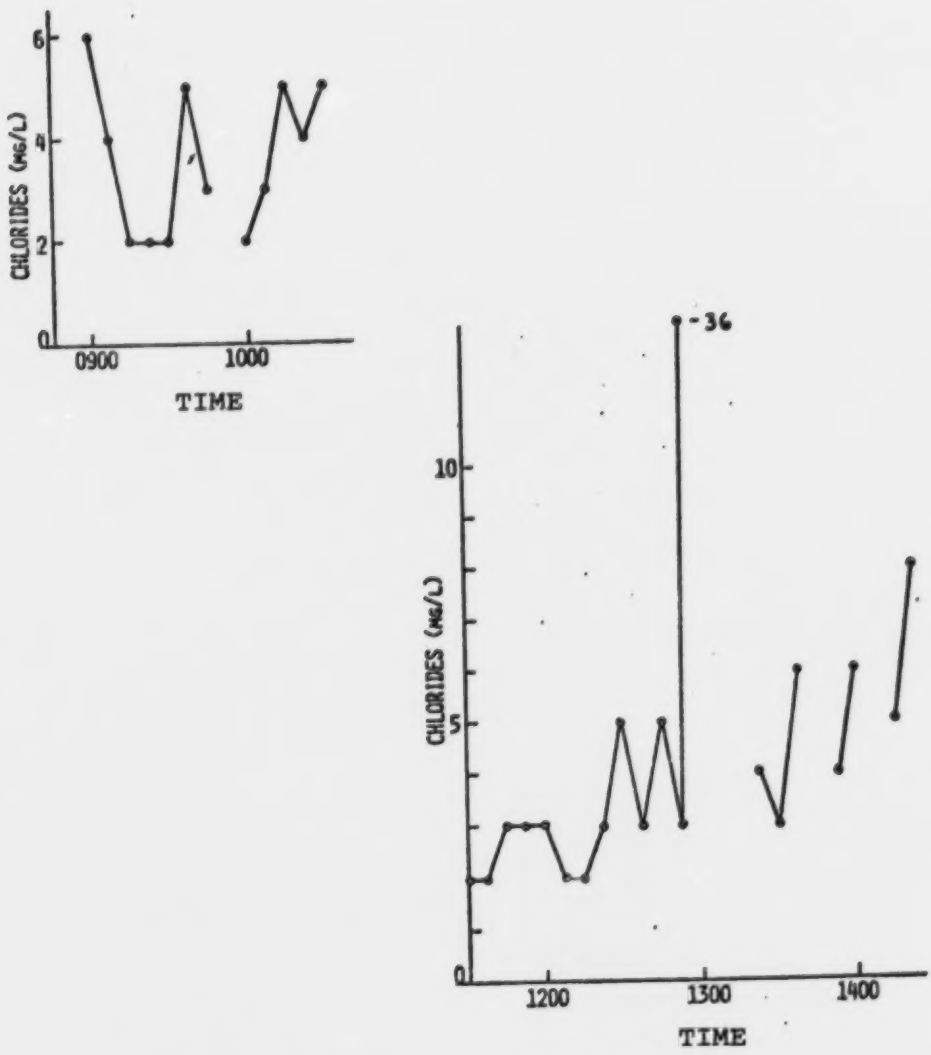


Figure 6-295 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: BANK
54" SEWER

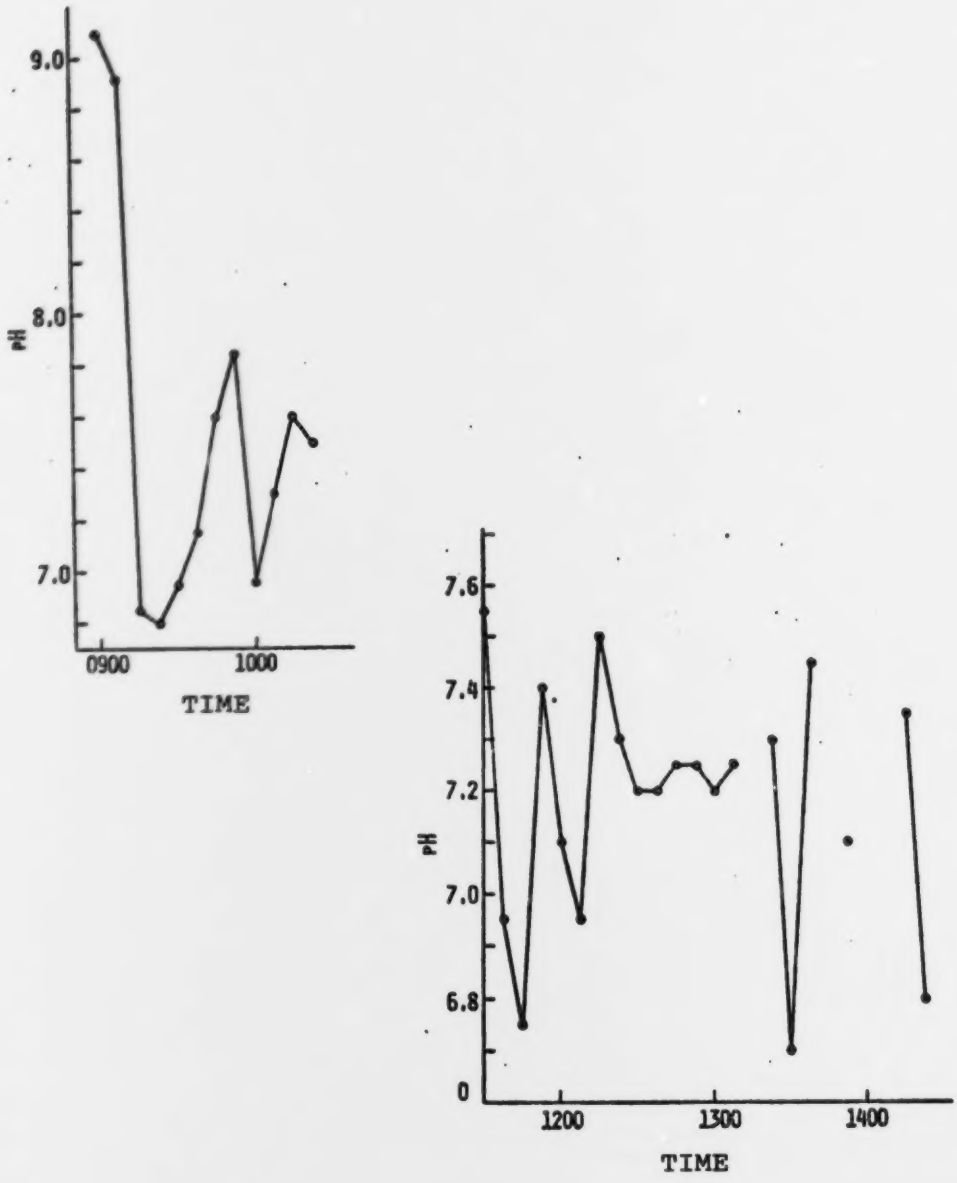


Figure 6-296 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 4, 1971
MONITORING STATION: BANK
54" SEWER

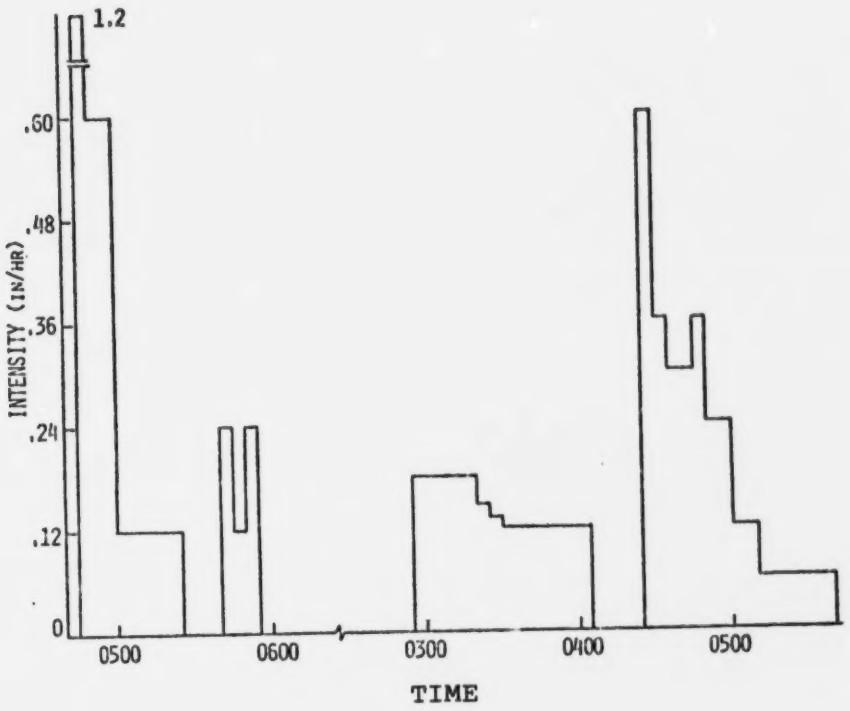


Figure 6-297 RAIN OF AUG. 21 & 22, 1971
LAIDLAW RAINGAGE

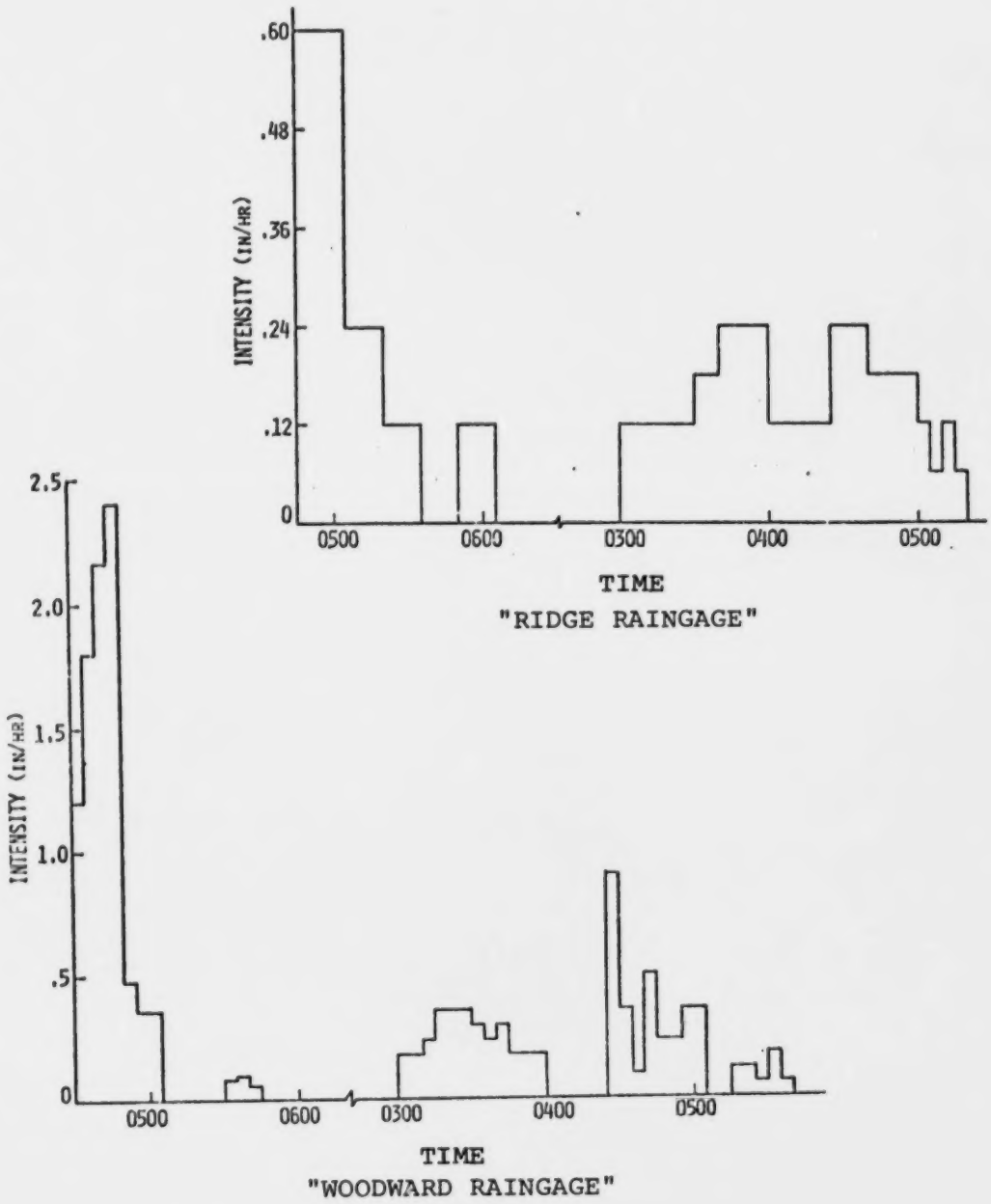


Figure 6-298 RAIN OF AUG. 21 & 22, 1971
HYETOGRAPHS

Table 6-81 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

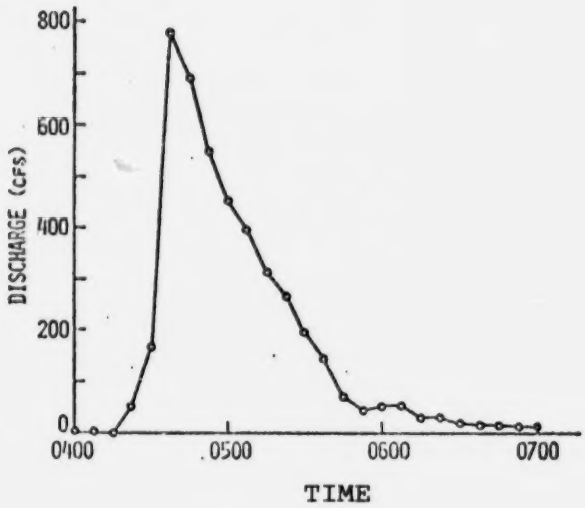
DATE OF STORM: August 21, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage					
0430	1.2	1.2	.60	167	254	196	167	795
0437:30	.60	1.8	.60	778	277	199	138	430
0445	.12	2.4	.60	691	258	186	150	408
0452:30	.12	.48	.24	547	146	112	133	176
0500	.12	-	.24	452	-	-	98	-
0507:30	.12	-	.12	398	-	-	-	-
0515	-	-	.12	314	-	-	-	-
0522:30	-	.08	-	267	-	-	64	330
0530	.12	.1	-	194	-	-	69	330
0537:30	.24	-	.12	192	334	216	69	330
0545	-	-	.12	70	282	167	42	870

Table 6-82 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 22, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage								
0300	.18	.18	.12	12	348	184	96	100	400	-	17
0307:30	.18	.18	.12	208	321	162	94	117	340	6.70	14
0315	.18	.24	.12	281	276	190	104	90	216	6.70	16
0322:30	.14	.36	.12	281	307	213	127	84	332	6.70	10
0330	.12	.30	.18	250	348	142	78	72	184	6.95	8
0337:30	.12	.24	.18	220	329	182	121	93	180	6.80	14
0345	.12	.18	.24	199	371	216	142	64	180	6.80	14
0352:30	.12	.18	.24	199	777	521	329	66	168	6.75	14
0400	.12	-	.12	180	624	429	307	61	136	6.90	19
0407:30	-	-	.12	364	648	167	134	34	156	6.80	14
0415	-	-	.12	398	797	523	327	42	168	6.90	16
0422:30	-	-	.12	380	499	412	286	26	168	6.80	18
0430	.36	.36	.24	364	706	411	221	26	184	7.30	10
0437:30	.30	.10	.24	358	605	419	241	20	120	6.90	8
0445	.36	.24	.18	331	550	312	229	42	152	6.75	19
0452:30	.24	.24	.18	268	432	308	110	23	100	6.85	24
0500	.12	.36	.12	208	508	327	116	55	116	6.95	19
0507:30	.12	-	.06	180	521	311	148	27	104	6.90	23
0515	.06	.12	.06	150	533	316	129	82	108	7.35	22
0522:30	.06	.12	-	117	527	327	121	90	184	7.40	27
0530	.06	.06	-	53	541	341	107	-	60	7.45	24
0537:30	.06	.06	-	30	527	281	120	37	76	7.40	29
0545	-	-	-	23	599	246	98	29	80	7.60	24
0552:30	-	-	-	18	303	199	76	-	112	7.20	26



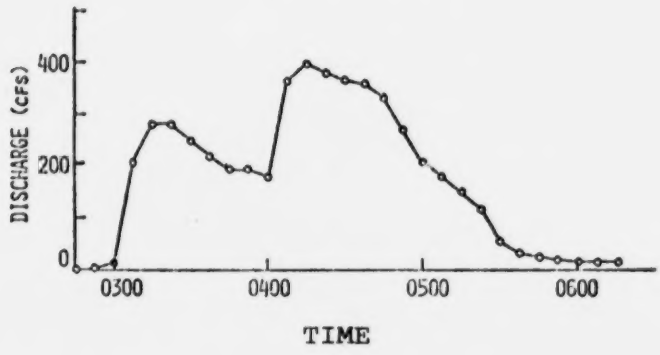


Figure 6-299 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 21 & 22, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

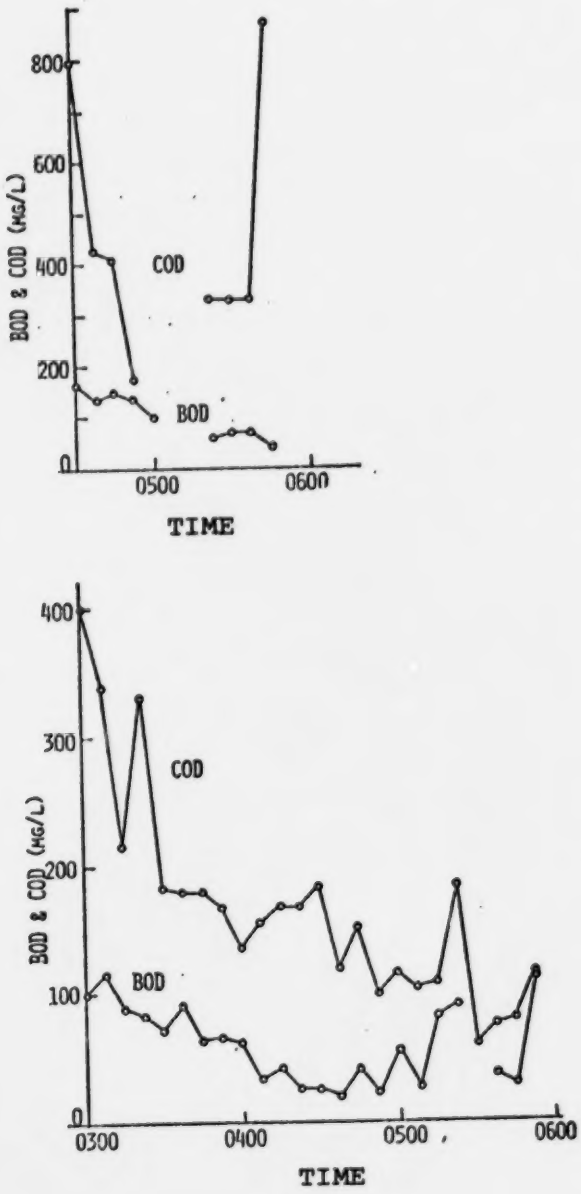


Figure 6-300 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 21 & 22, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

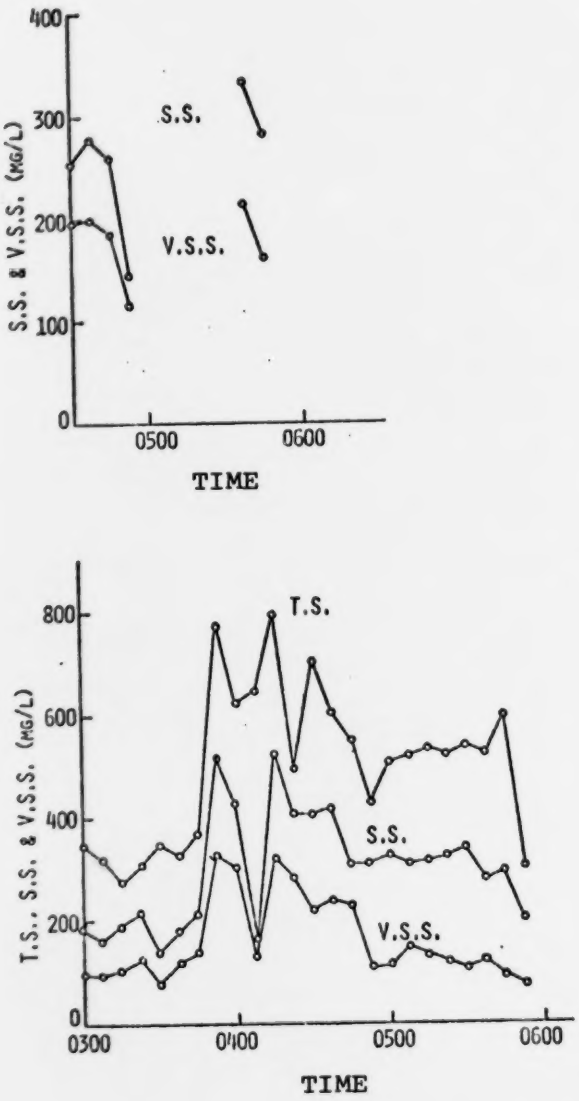


Figure 6-301 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 21 & 22, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-83 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 22, 1971 MONITORING STATION: Longview 12' x 9'

Time	Discharge cfs	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH
2015	10.6	-	-	150	208	-
2022:30	35.6	103	48	130	236	7.50
2030	27.2	92	44	103	173	7.35
2037:30	22.8	63	23	-	59	7.40
2045	19.6	48	16	77	114	7.50
2052:30	16.0	33	11	93	98	7.30
2100	13.2	26	9	55	90	7.20
2107:30	10.6	26	8	28	94	7.30
2115	13.2	23	6	25	94	7.30
2122:30	66.0	11	4	14	110	7.60
2130	50.0	18	5	25	173	7.60
2137:30	40.0	40	13	14	63	7.30
2145	50.0	53	16	25	102	7.40
2152:30	54.0	70	18	7	86	7.30
2200	35.7	74	23	30	102	7.55
2207:30	27.2	54	19	30	82	7.70
2215	27.2	117	34	-	55	7.50
2222:30	22.8	48	17	-	78	7.50
2230	22.8	121	37	-	90	7.30
2237:30	19.6	34	16	-	63	7.40
2245	19.6	09	4	-	98	7.10
2252:30	13.2	05	2	-	102	7.55
2300	10.6	07	2	-	110	-
2307:30	10.6	06	01	-	110	-

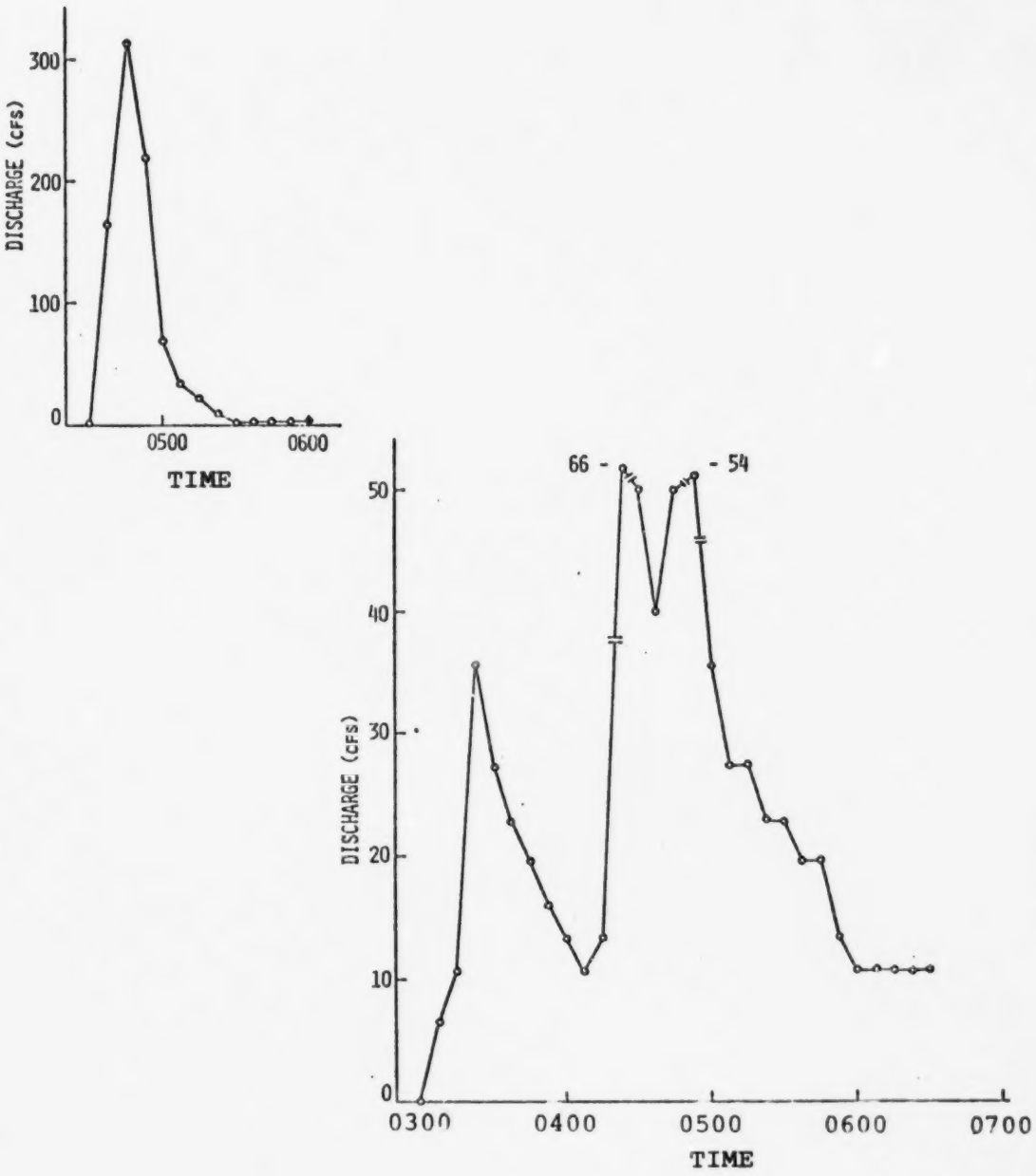


Figure 6-302 RAINFALL QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 21 & 22, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

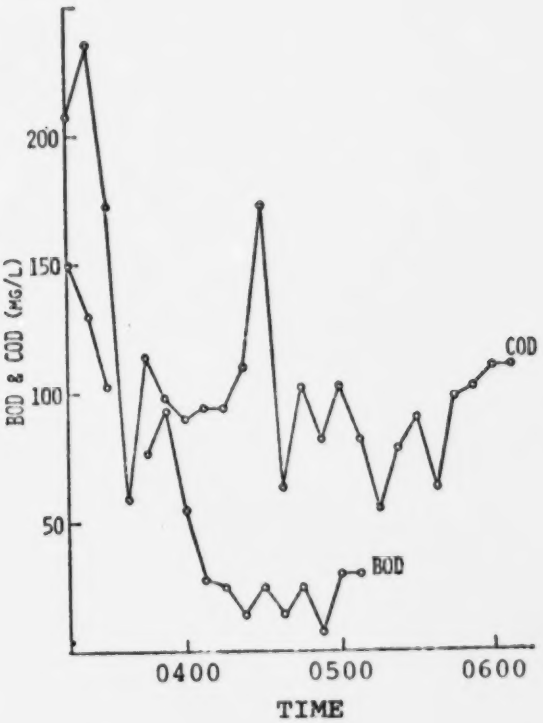


Figure 6-303 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 22, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

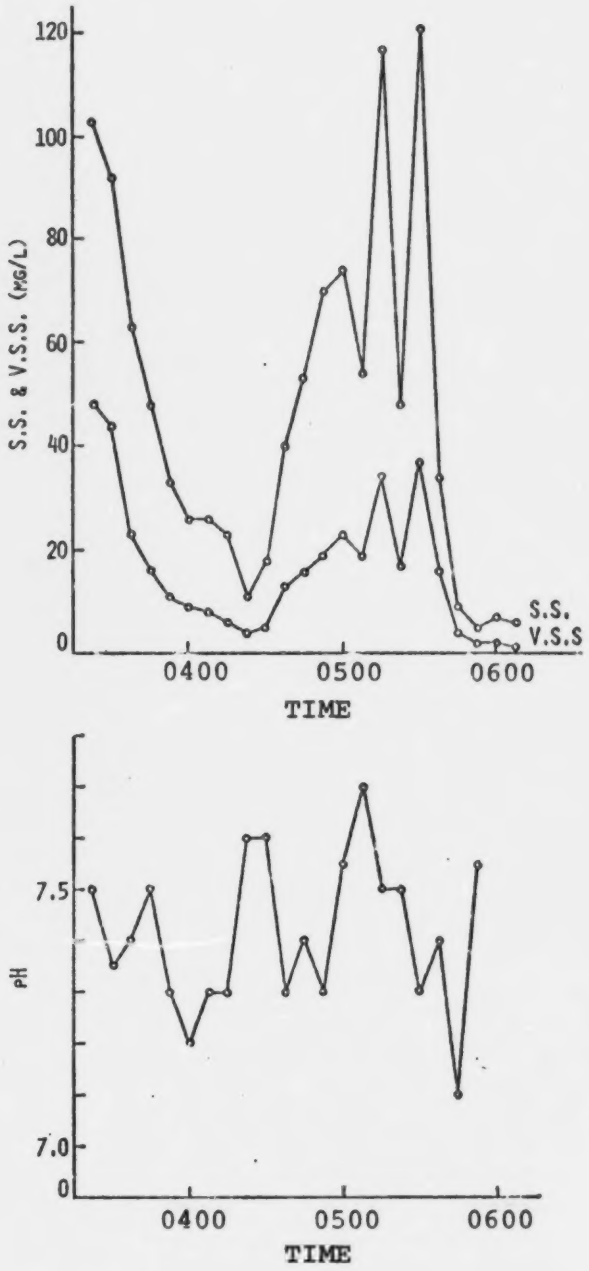


Figure 6-304 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 22, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

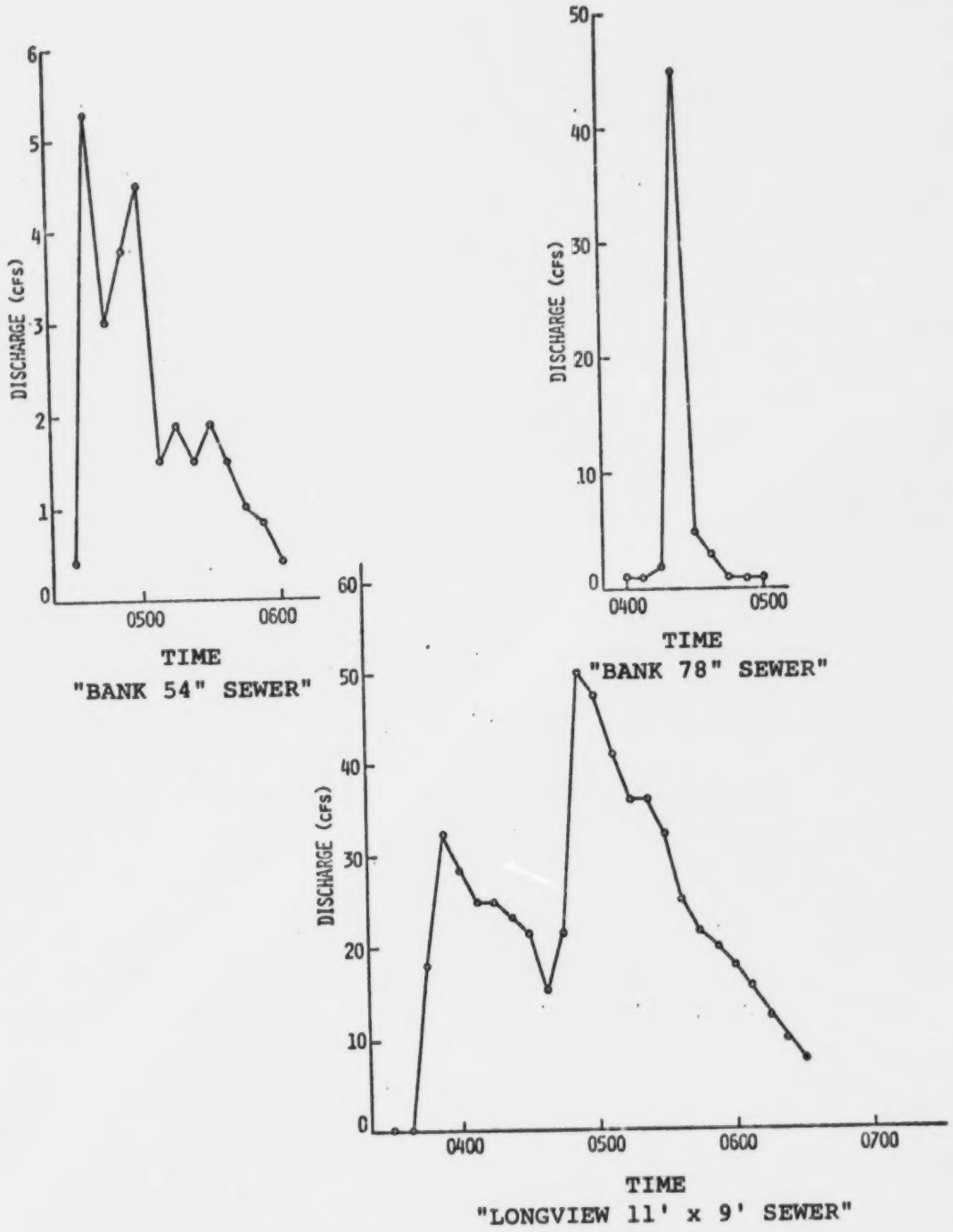
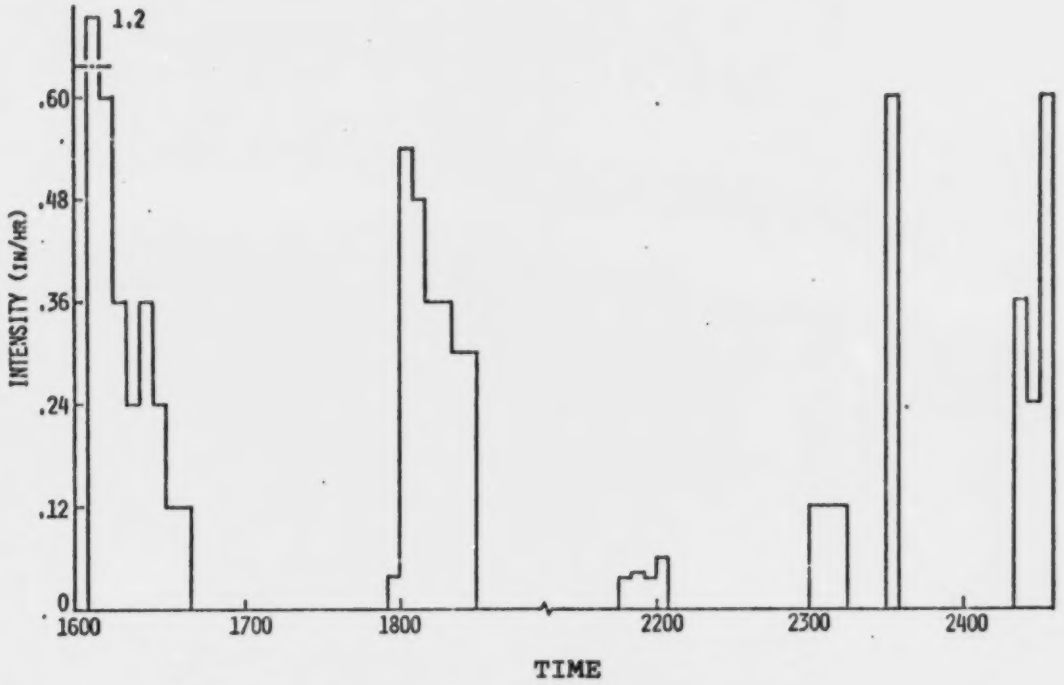


Figure 6-305 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 22, 1971



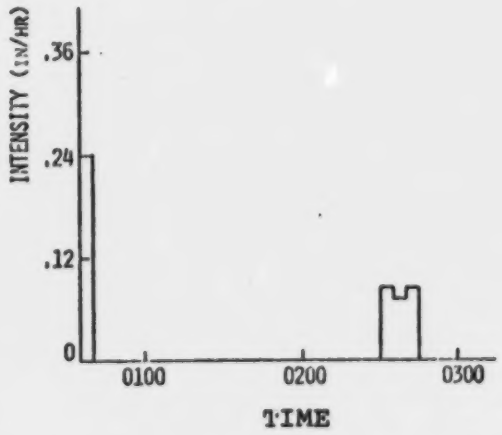


Figure 6-306 RAIN OF AUGUST 25 & 26, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

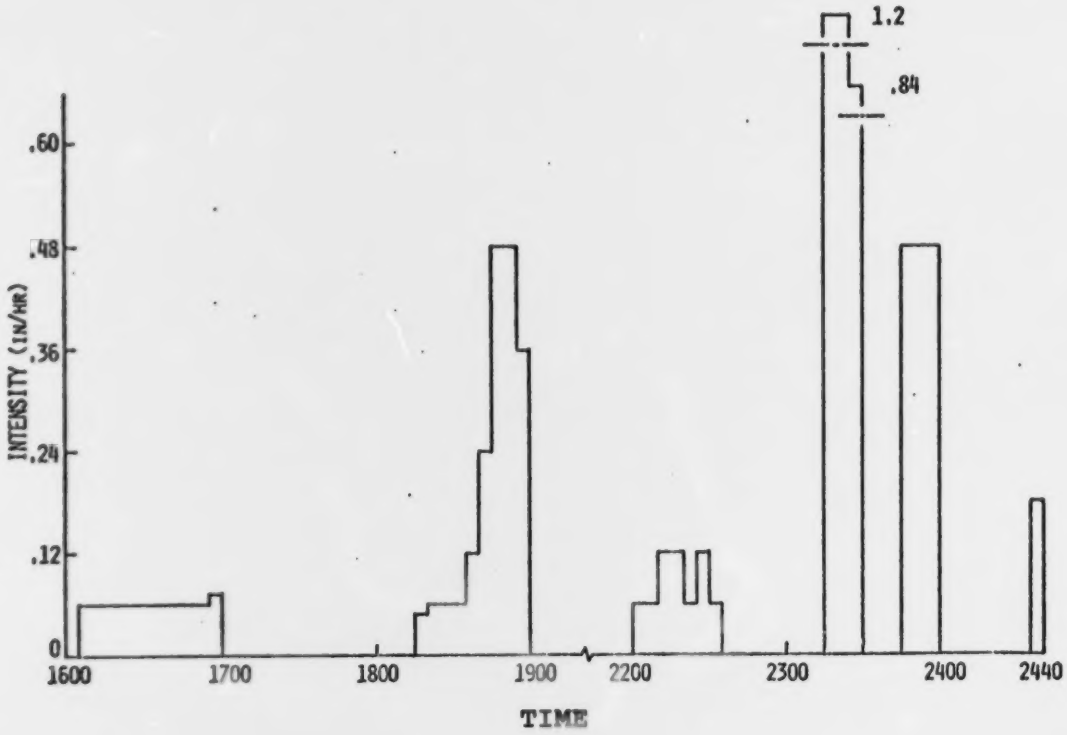
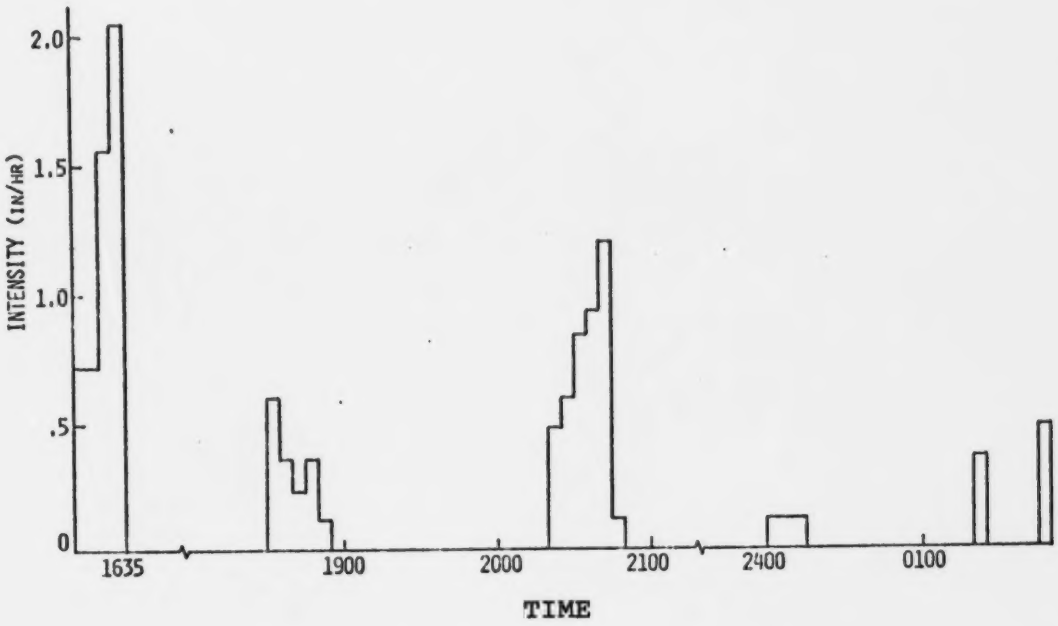


Figure 6-306 RAIN OF AUGUST 25 & 26, 1971
RIDGE RAINGAGE
HYETOGRAPH



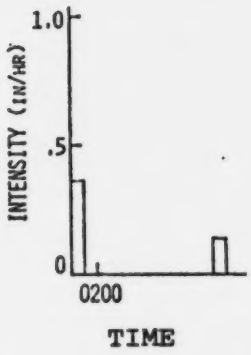


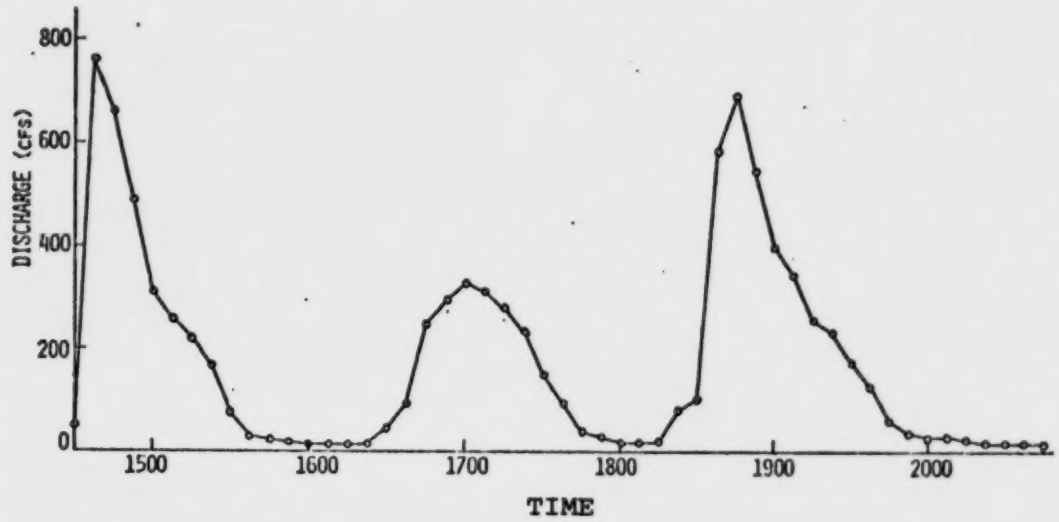
Figure 6-307 RAIN OF AUGUST 25 & 26, 1971
WOODWARD RAINGAGE
HYETOGRAPHS

Table 6-84 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 25, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	Cl
	Iaiulaw Gage	Woodward Gage	Ridge Gage							
1430	-	-	-	52	-	-	-	113	-	-
1437:30	-	-	-	763	-	-	-	12	564	22
1445	-	-	-	663	422	276	121	24	324	12
1452:30	-	-	-	489	-	-	-	11	-	-
1500	-	-	-	314	-	-	-	38	-	-
1507:30	-	-	-	261	576	321	142	11	324	10
1515	-	-	-	222	-	-	-	8	-	16
1522:30	-	-	-	167	408	208	111	7	196	-
1530	-	-	-	74	-	170	95	9	472	46
1630	*	*	*	44	-	-	-	33	-	-
1637:30	*	*	*	92	-	-	-	27	-	11
1645	*	*	*	250	309	125	106	13	508	-
1652:30	*	*	*	297	-	-	-	30	-	-
1700	*	*	*	330	-	-	-	14	-	2
1707:30	*	*	*	314	207	140	72	21	612	-
1715	*	*	*	281	-	-	-	4	-	2
1722:30	*	*	*	235	-	-	-	21	-	3.2
1730	*	*	*	150	401	106	49	4	540	3.2
1737:30	*	*	*	92	-	97	27	4	740	-
1822:30	*	*	*	81	-	-	-	35	904	-
1830	*	*	*	102	-	-	-	12	-	34
1837:30	*	*	*	586	-	-	-	6	-	76
1845	*	*	*	691	-	-	-	11	-	-
1852:30	*	*	*	597	-	-	-	27	-	85

*Refer to hyetographs for data.



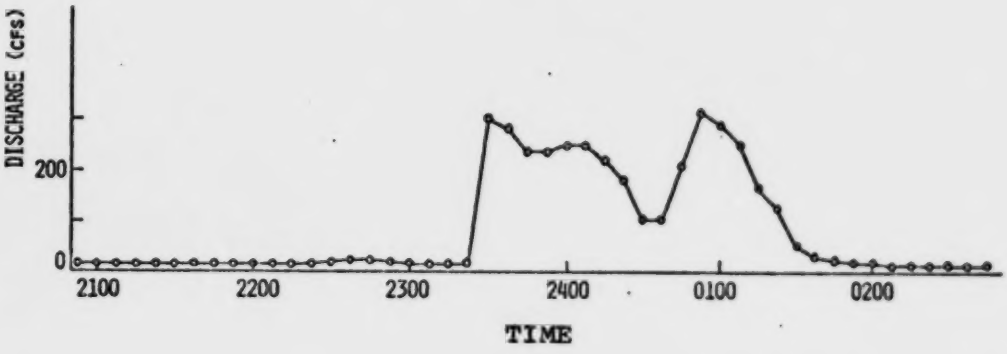
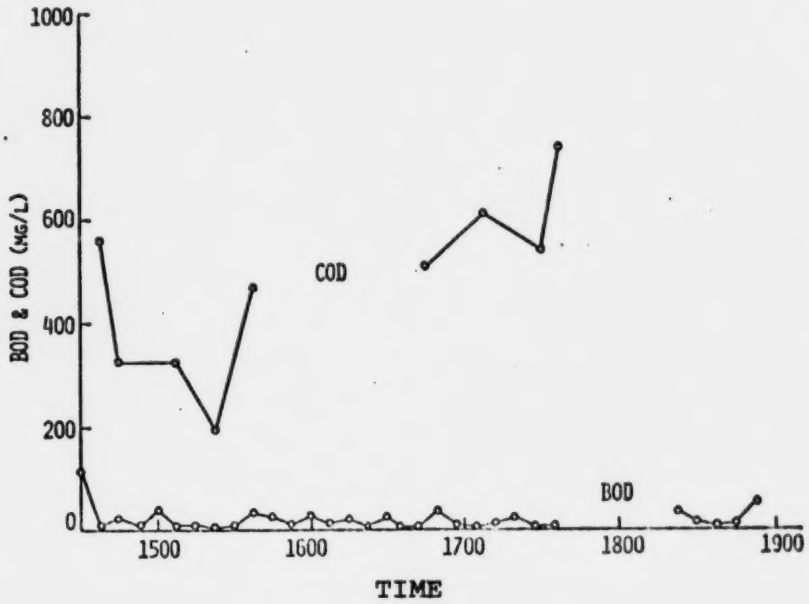


Figure 6-308 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUGUST 25 & 26, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER



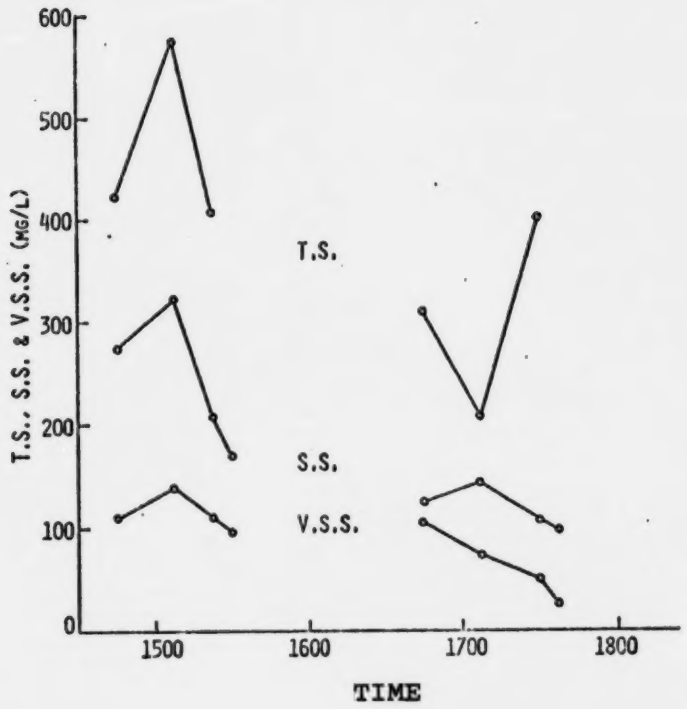


Figure 6-309 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 25, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

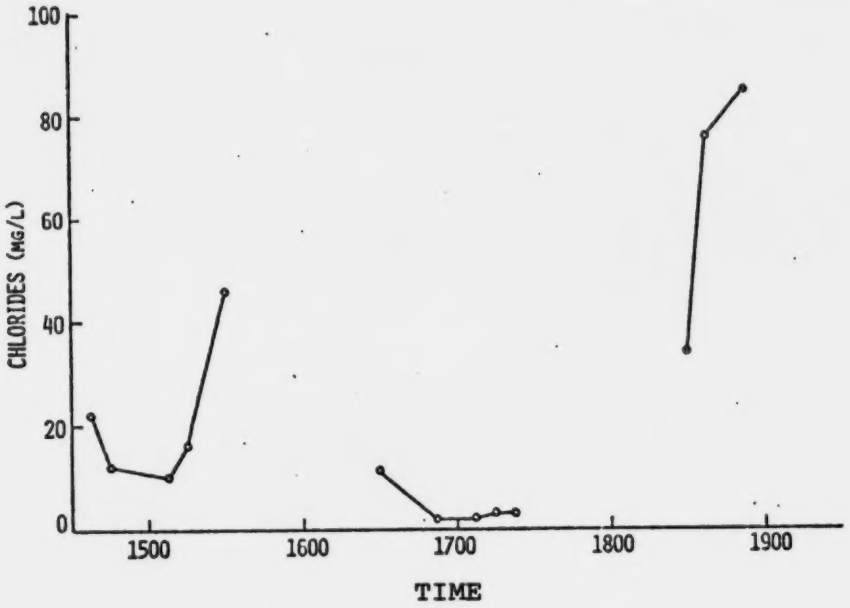
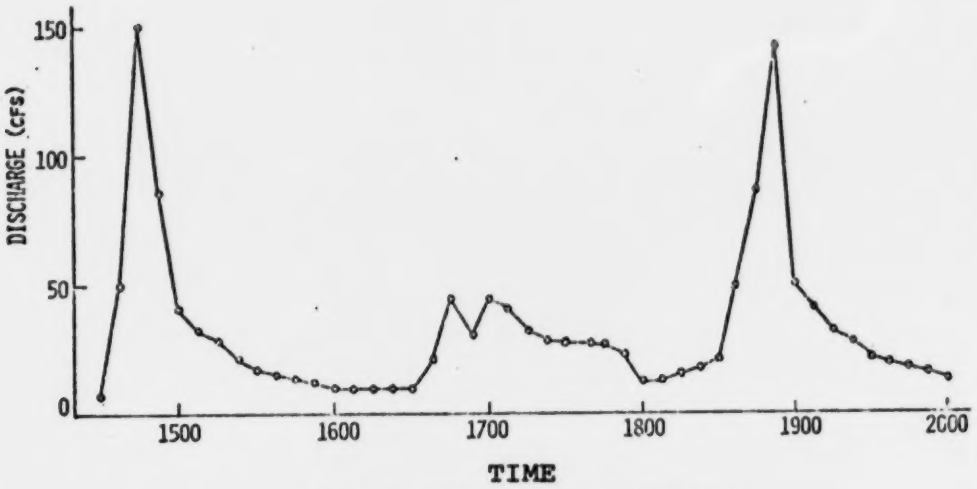
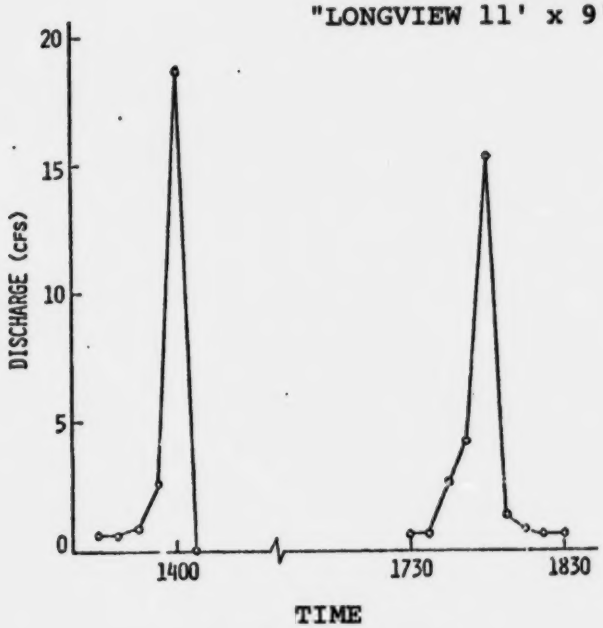


Figure 6-310 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUG. 25, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER



"LONGVIEW 11' x 9' SEWER"



"BANK 78" SEWER"

Figure 6-311 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUGUST 25, 1971

Table 6-85 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: August 26, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH
	Laidlaw Gage	Ridge Gage							
1452:30	-	-	5.3	400	101	65	37	480	9.50
1500	-	-	9.0	371	88	56	12	236	8.20
1637:30	.012	.06	9.0	189	74	28	15	208	9.00
1645	-	.06	5.3	125	29	06	8	276	10.8

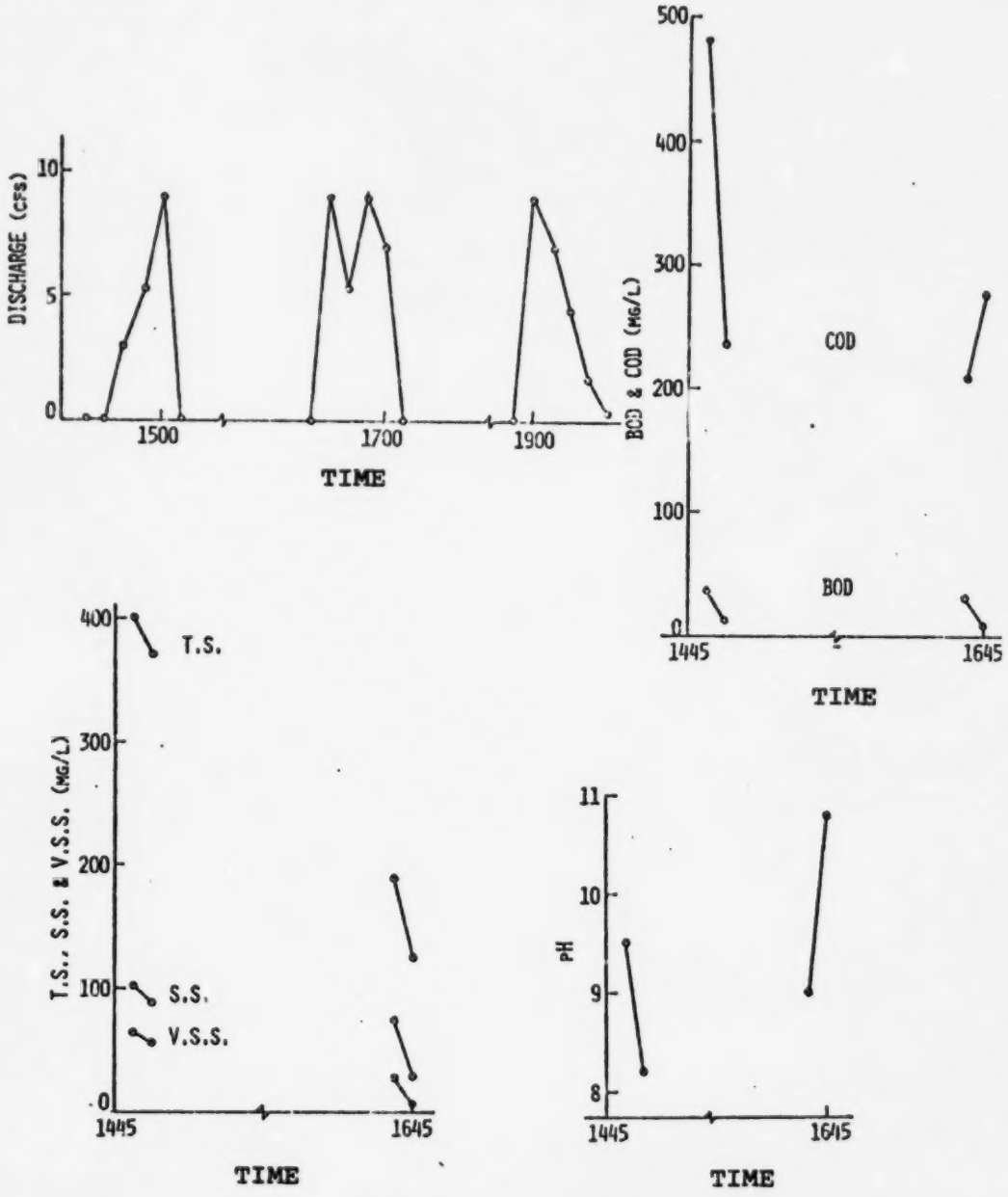


Figure 6-312 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: AUGUST 25, 1971
MONITORING STATION: BANK
54" SEWER

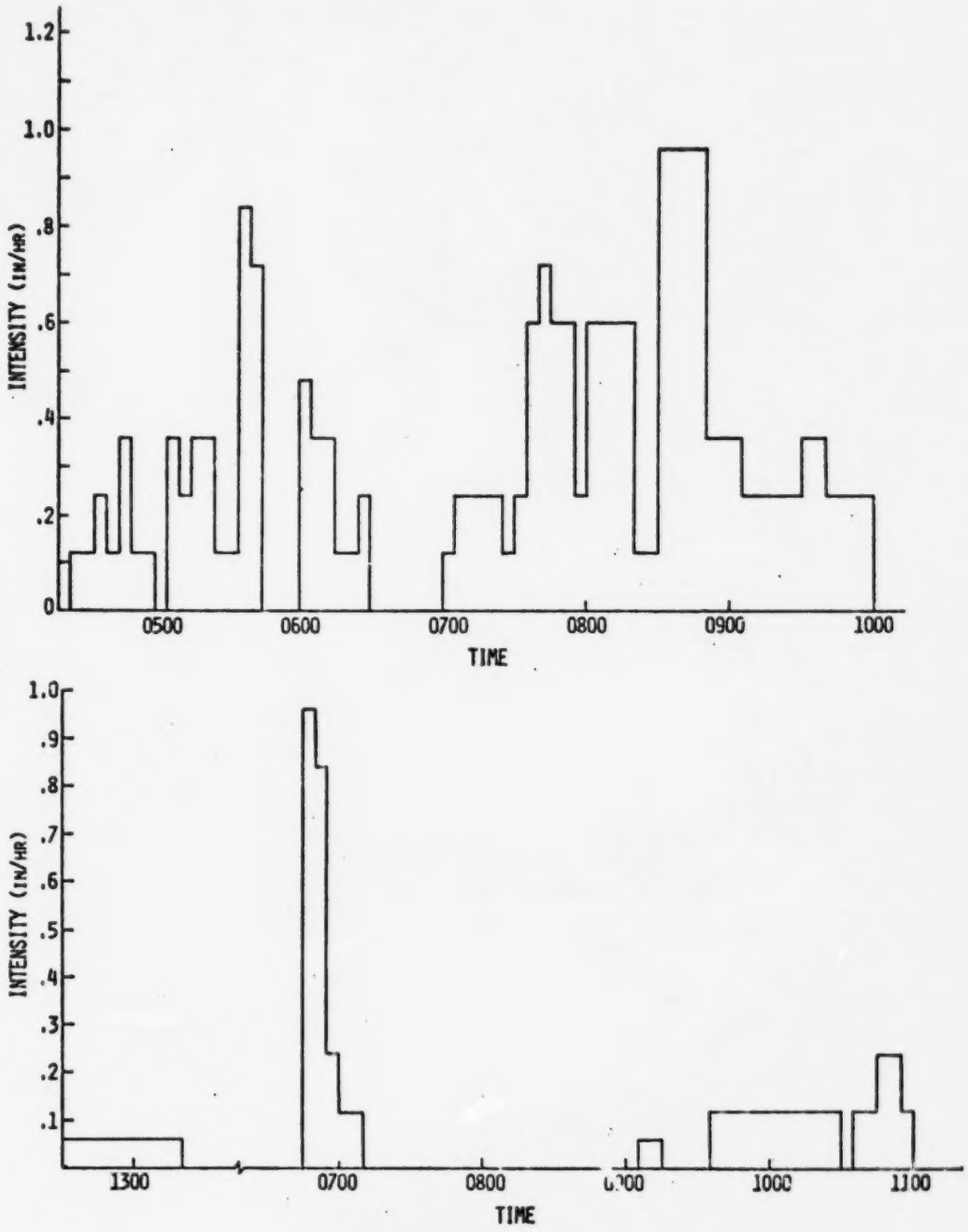


Figure 6-313 RAINFALL OF SEPT. 2 & 3, 1971
LAIDLAW RAINGAGE
HYETOGRAPHS

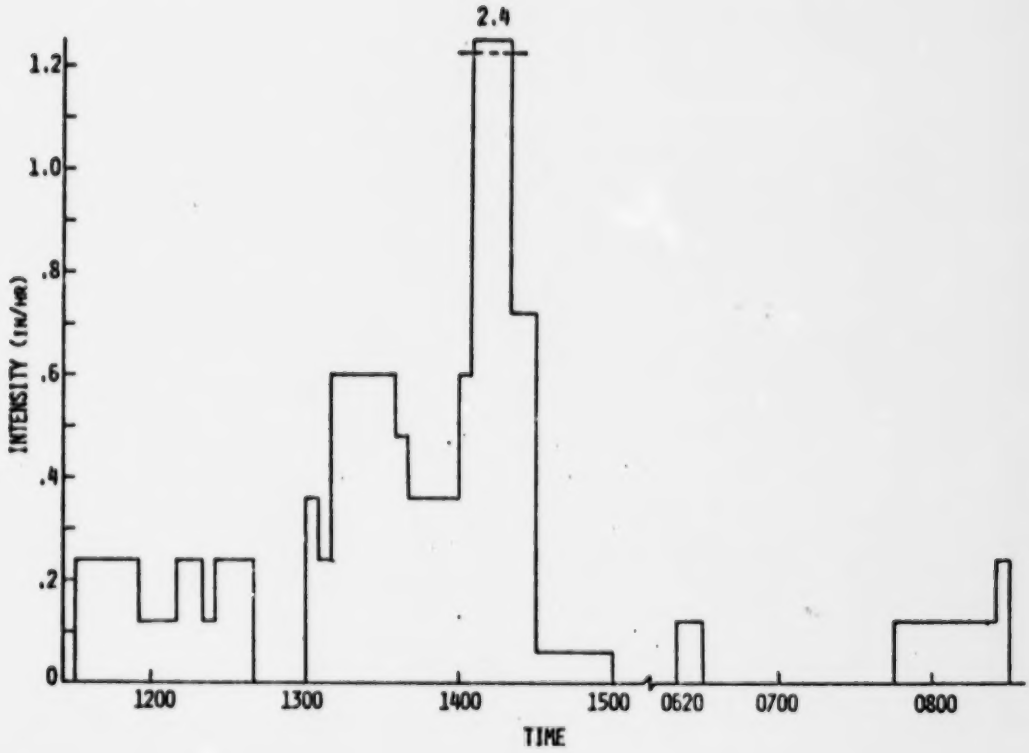


Figure 6-314 RAINFALL OF SEPT. 3 & 4, 1971
LAIDLAW RAINGAGE
HYETOGRAPH

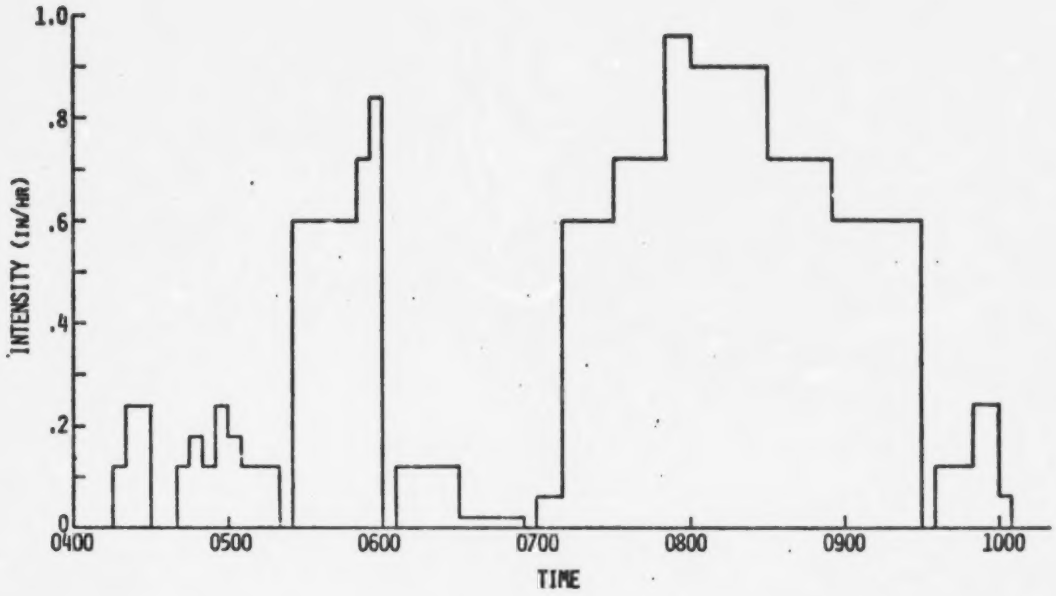


Figure 6-315 RAINFALL OF SEPT. 2, 1971
RIDGE RAINGATE
HYETOGRAPH

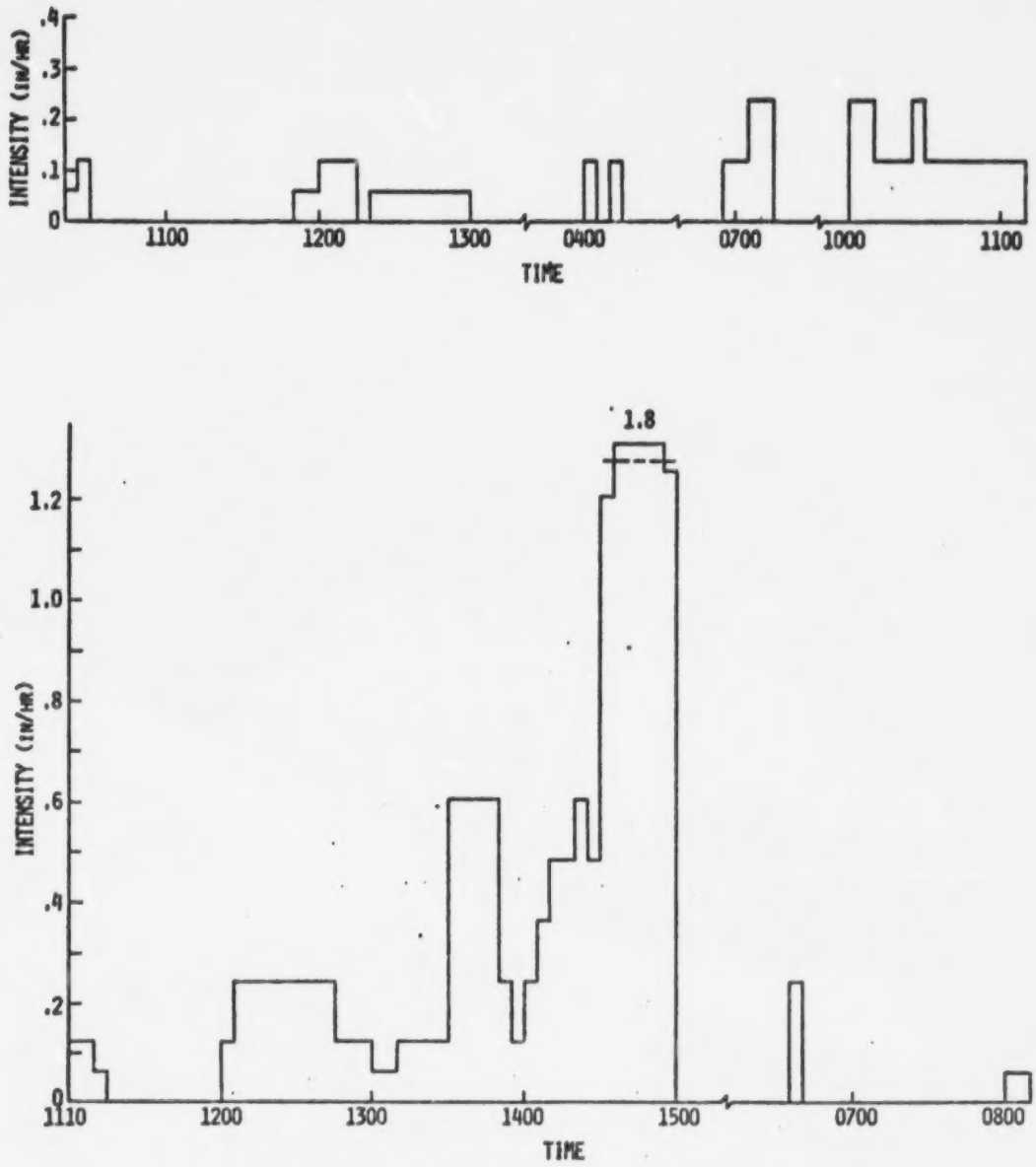


Figure 6-316 RAINFALL OF SEPT. 2, 3 & 4, 1971
RIDGE RAINGAGE
HYETOGRAPHS

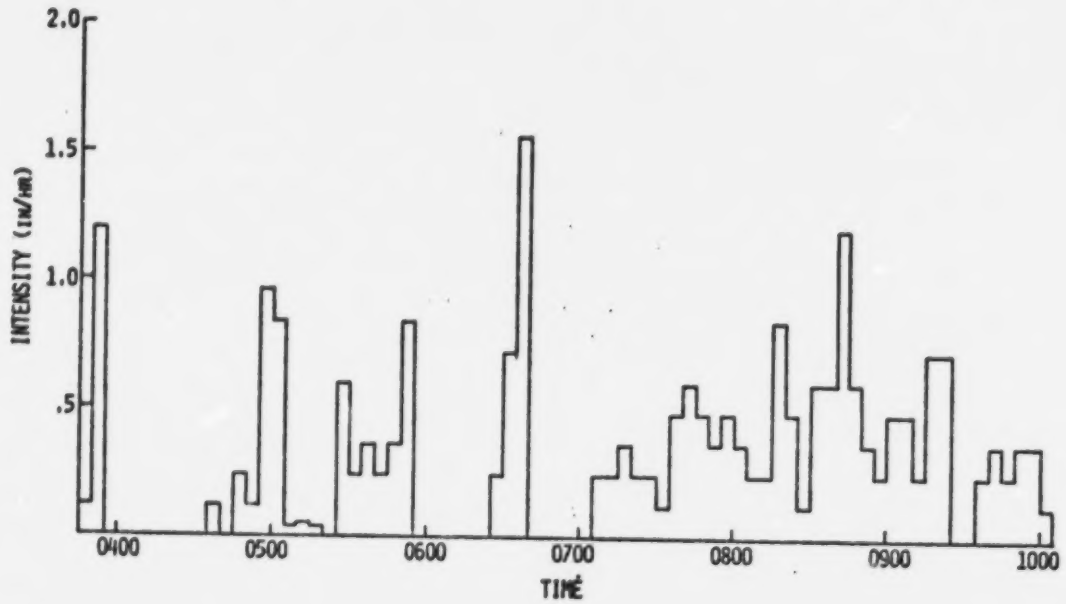


Figure 6-317 RAINFALL OF SEPT. 2, 1971
WOODWARD RAINGAGE
HYETOGRAPH

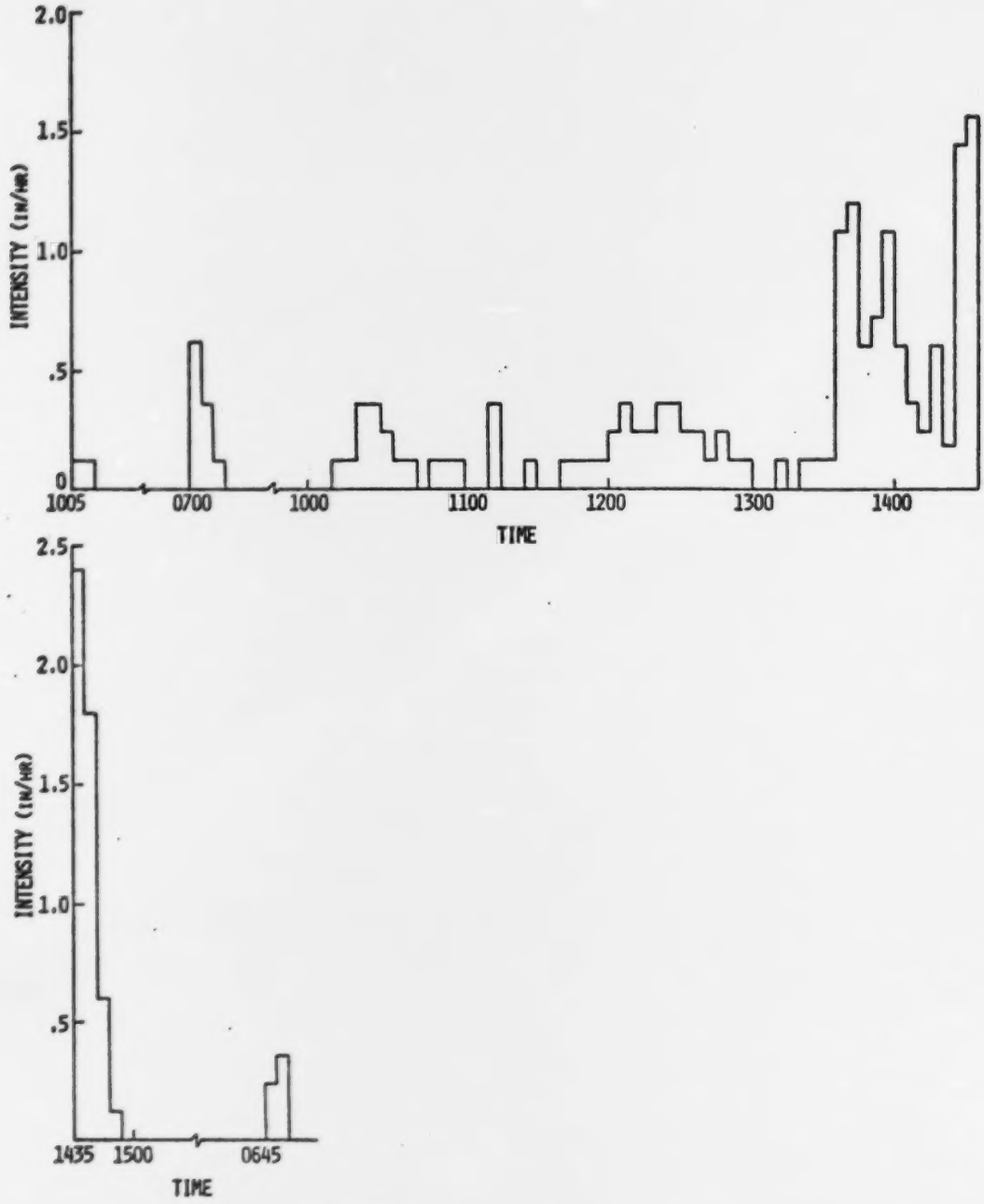


Figure 6-318 RAINFALL OF SEPT. 2, 3 & 4, 1971
WOODWARD RAINGAGE
HYETOGRAPHS

Table 6-86 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 2, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	Coliform x 10^5
	Laidlaw Gage	Woodward Gage	Ridge Gage							
0252:30	-	-	-	55	-	-	-	63	868	28
0300	-	-	-	293	-	-	-	54	120	85
0307:30	-	-	-	315	1594	-	-	58	384	-
0315	-	-	-	293	902	605	412	57	204	131
0322:30	-	-	-	283	760	571	390	58	196	134
0330	-	-	-	241	920	548	328	65	176	129
0337:30	-	-	-	261	866	691	416	75	180	121
0345	-	.12	-	312	572	467	227	59	172	128
0352:30	-	1.20	-	732	568	400	189	57	172	95
0400	-	-	-	647	438	352	116	58	168	30
0407:30	-	-	-	592	516	396	127	57	140	76
0415	-	-	-	552	634	455	214	66	136	56
0422:30	-	-	.24	452	920	711	224	62	108	87
0430	.12	-	.24	490	390	250	105	61	104	135
0437:30	.24	.12	-	403	592	348	162	64	108	140
0445	.12	-	.12	315	610	390	175	68	136	39
0452:30	.12	.12	.12	231	-	316	114	62	172	56
0500	.12	.96	.24	202	800	428	227	64	228	97
0507:30	.36	.04	.12	175	1608	1018	726	65	256	160
0515	.24	.05	.12	166	1180	716	429	64	308	140
0522:30	.36	-	-	402	1430	811	500	141	244	155
0530	.12	.60	.60	293	1024	498	349	105	192	55
0537:30	.84	.36	.60	474	578	327	300	62	160	88
0545	.72	.24	.60	453	-	-	-	-	156	120

Table 6-87 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 2, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr) Ridge Gage	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
1145	-	38.0	612	427	216	14	272
1152:30	.06	34.0	698	412	296	14	438
1200	.06	30.0	706	506	303	21	342
1207:30	.12	24.0	712	524	328	57	396

Table 6-88 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 3, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage						
0730	-	-	-	25	1746	1412	926	54	379
0737:30	-	-	-	392	1712	1127	914	60	413
0745	-	-	-	357	668	328	182	53	103
0752:30	-	-	-	261	596	392	106	43	95
0800	-	-	-	232	768	326	108	55	232
0807:30	-	-	-	167	926	314	127	48	273
0815	-	-	-	100	832	432	216	50	239
0822:30	-	-	-	61.5	2016	1684	1245	60	570
0945	.12	-	-	78	2334	1780	1190	60	540
0952:30	.12	-	-	102	1342	1003	907	52	277
1000	.12	-	-	142	1458	1060	777	64	357
1007:30	.12	.12	.24	102	1234	1089	848	64	353
1015	.12	.12	.12	78	1914	1107	871	55	273
1022:30	.12	.36	.12	78	1808	1304	977	60	315

Table 6-89 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 3, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl	Coliform x 10^3
	Laidlaw Gage	Woodward Gage	Ridge Gage								
1045	.12	-	.12	313	416	210	71	318	7.75	39	12
1052:30	.24	.12	.12	358	427	210	35	216	7.61	40	25
1100	.12	.12	.12	348	-	-	-	244	-	-	18
1107:30	-	-	.12	313	312	189	39	216	7.42	14	120
1115	-	.36	.12	261	389	127	41	222	8.05	17	53
1122:30	-	-	.06	222	327	116	37	216	9.43	26	13
1130	-	.12	-	203	519	400	22	238	7.69	28	82
1137:30	.24	-	-	222	-	-	-	219	-	-	56
1145	.24	.12	-	261	514	314	28	219	7.39	25	46
1152:30	.24	.12	-	281	289	106	37	230	7.39	25	38
1200	.12	.12	-	261	-	-	-	244	-	16	77
1207:30	.12	.36	.24	232	222	177	66	276	7.50	30	76
1215	.24	.24	.24	222	-	-	-	248	-	-	75
1222:30	.12	.36	.24	232	278	184	73	173	7.40	31	23
1230	.24	.36	.24	261	-	-	-	240	-	-	24
1237:30	.24	.24	.24	313	306	212	52	248	7.51	26	26
1245	-	.12	.24	392	308	208	19	177	7.39	26	27
1252:30	-	.12	.12	512	349	227	38	184	7.33	11	55
1300	-	.12	.12	566	371	271	38	180	7.30	13	110
1307:30	.24	-	.06	528	380	245	34	159	7.23	12	121
1315	.60	.12	.12	490	341	237	35	163	7.22	24	28
1322:30	.60	.12	.12	414	-	-	49	159	7.12	29	26
1330	.60	.12	.12	358	-	-	27	169	7.28	19	25
1337:30	.48	1.08	.60	325	-	-	17	-	7.08	25	82

Table 6-90 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 3 & 4, 1971 MONITORING STATION: Outlet

Time	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	Cl	Coliform x 10^4
1715	-	-	-	-	40	104	34	4
1722:30	-	1474	916	432	46	195	34	10
1730	-	1534	728	312	47	296	43	7
1737:30	-	2268	1445	699	50	312	41	6
1745	-	1884	1692	715	48	348	47	10
1752:30	-	-	-	-	-	336	-	25
1800	74	-	-	-	-	328	-	-
1807:30	67	-	-	-	-	324	52	-
1815	61	1592	428	182	43	324	92	-
1822:30	55	1736	1182	710	40	282	58	18
1830	55	2120	1211	824	46	282	63	20
1837:30	52	2120	1609	790	77	465	36	21
1845	49.5	2248	-	-	73	525	63	2
1852:30	47	2214	-	-	78	416	65	8
1900	44	2184	-	-	68	420	61	16
1907:30	41.5	2364	1804	1412	58	378	69	13
1915	41.5	2434	1709	1607	54	378	76	38
1922:30	39	2478	1777	1109	56	382	56	37
1930	39	2584	1807	1127	60	304	32	5
0630	19	2006	1677	1242	45	174	48	35
0637:30	55	1344	645	432	48	148	39	-
0645	194	650	169	92	48	140	57	8
0652:30	151	722	-	-	53	204	64	14
0700	900	762	-	-	-	-	-	10

Table 6-91 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 4, 1971 MONITORING STATION: Outlet

Time	Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
0930	142	1284	716	428	57	235
0937:30	118	2064	1120	706	64	231
0945	102	1400	628	422	66	256
0952:30	93	1106	634	418	62	235
1000	82	602	412	146	54	248
1007:30	80.5	1458	798	495	53	198

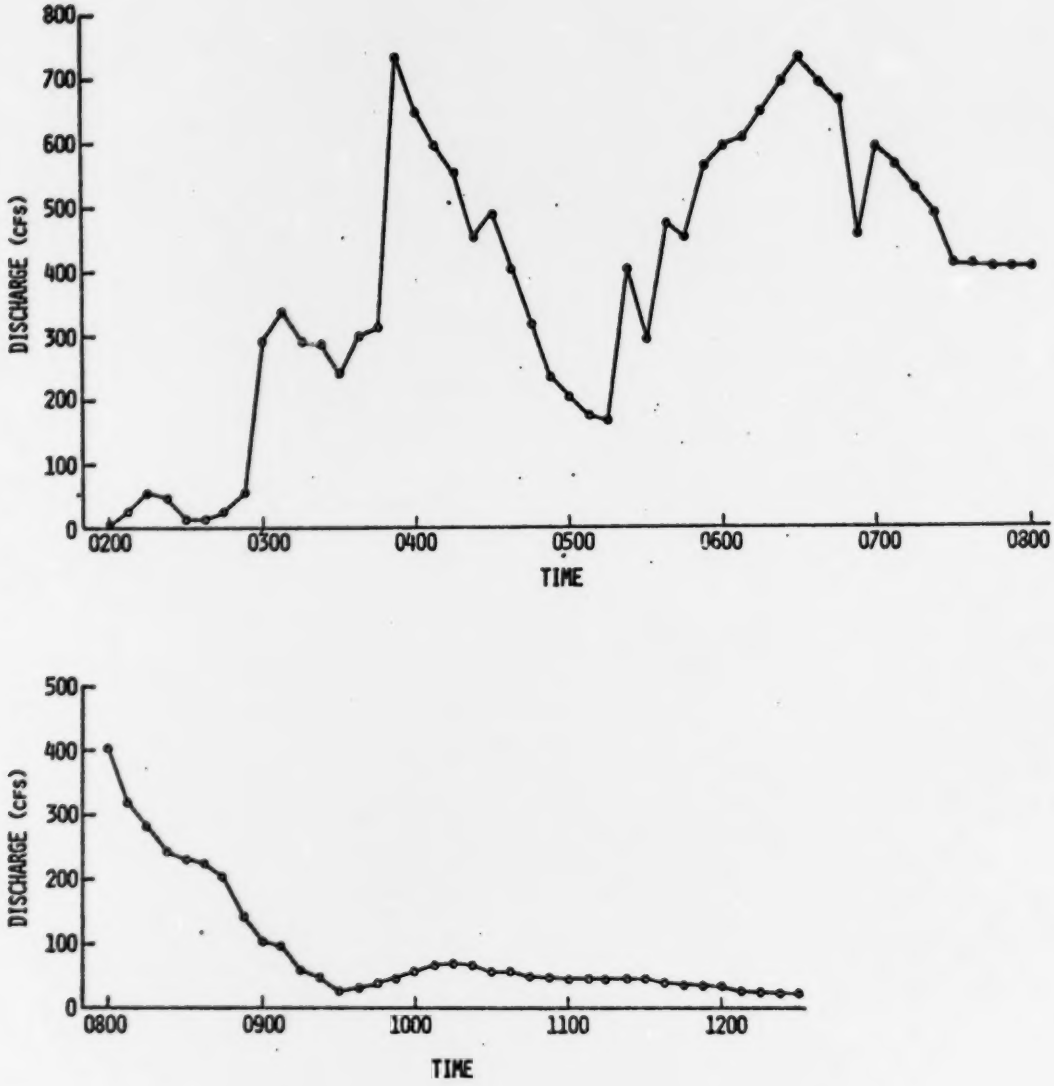


Figure 6-319 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

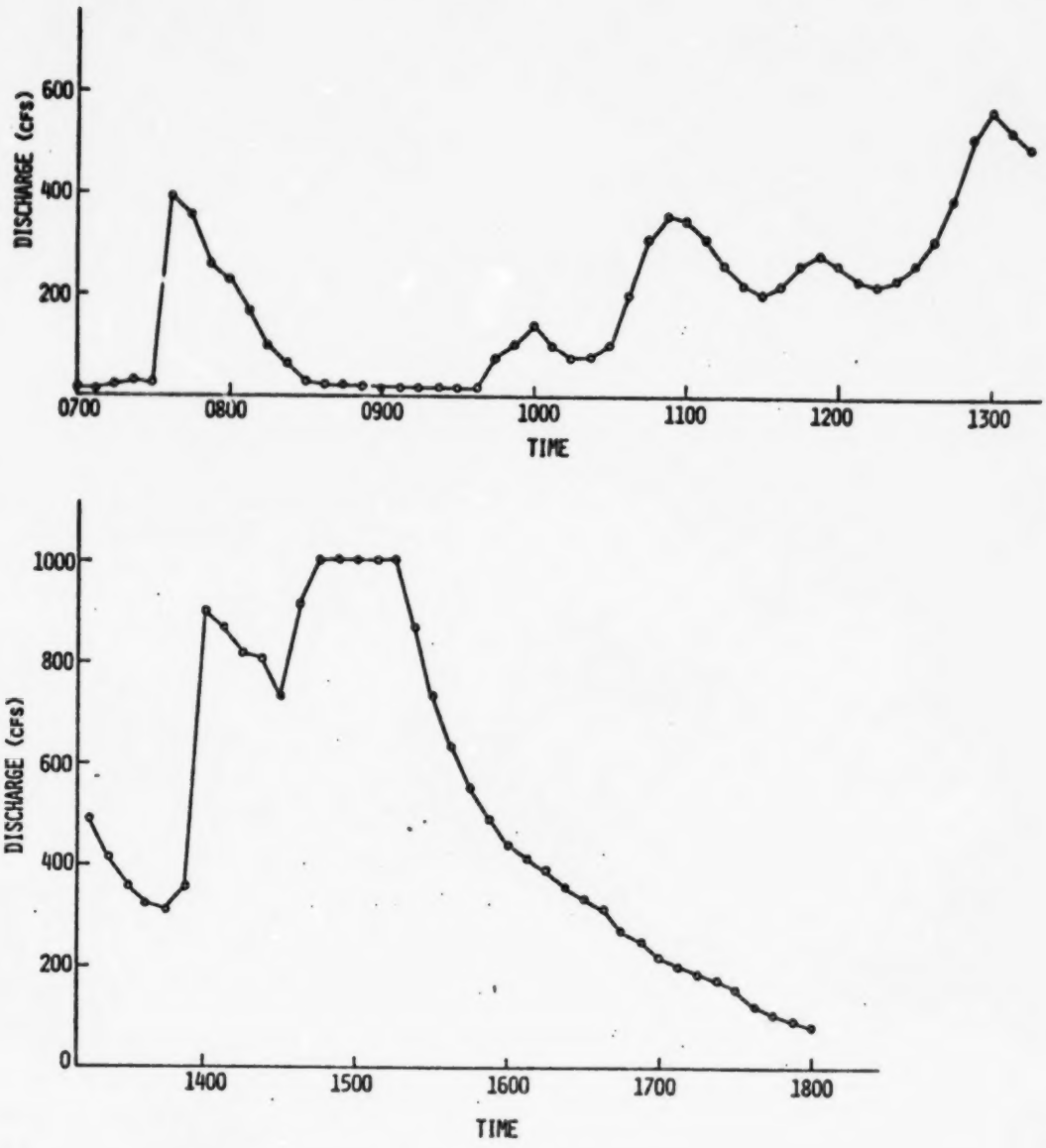


Figure 6-320 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

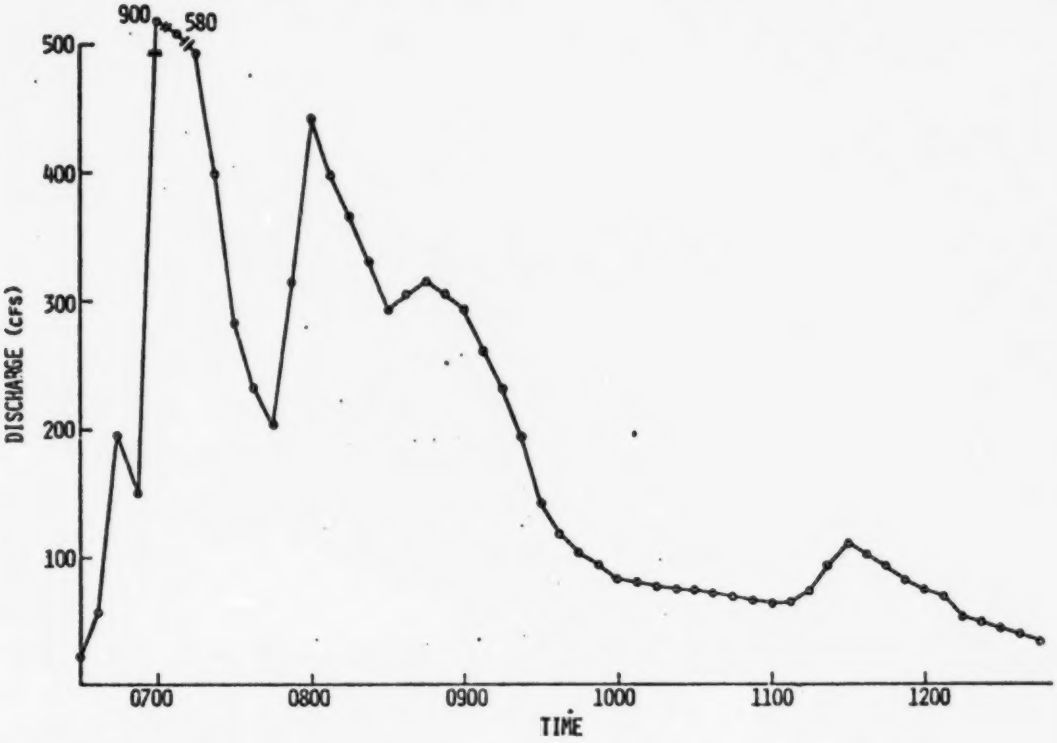


Figure 6-321 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

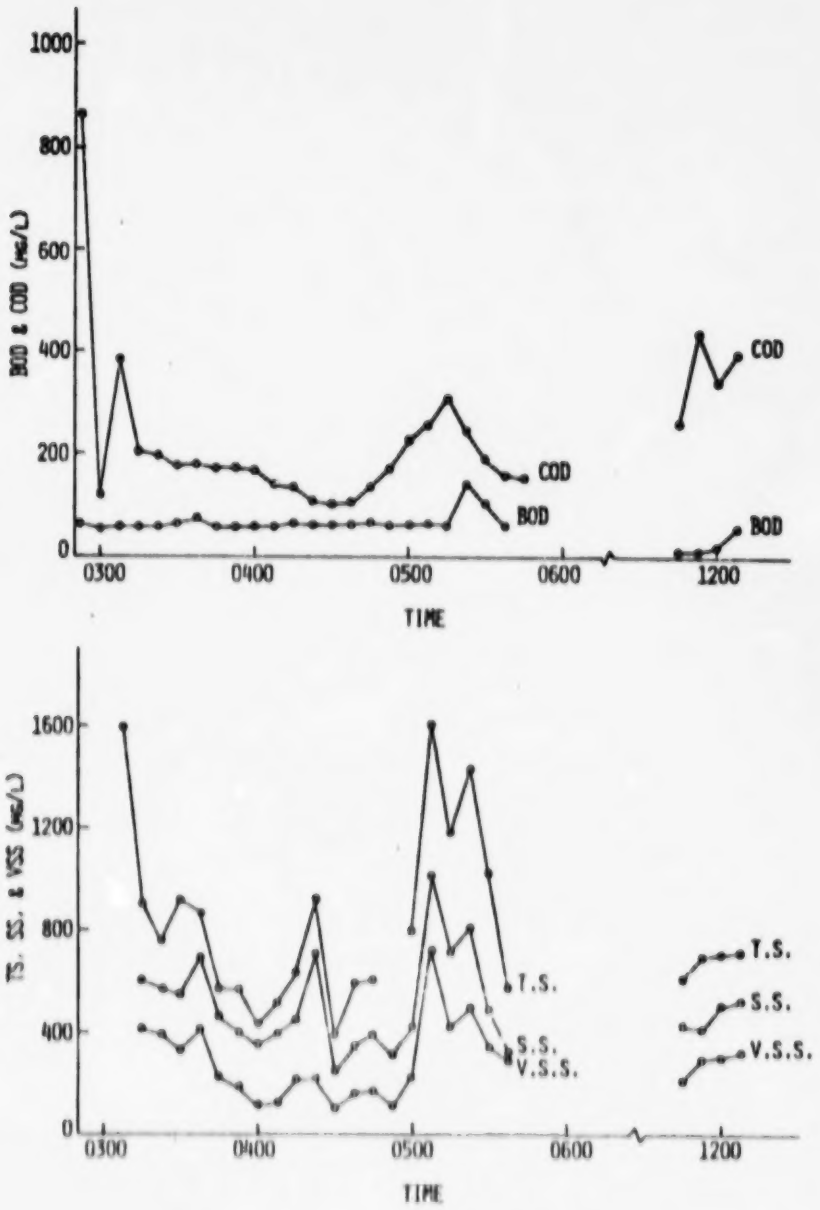


Figure 6-322 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

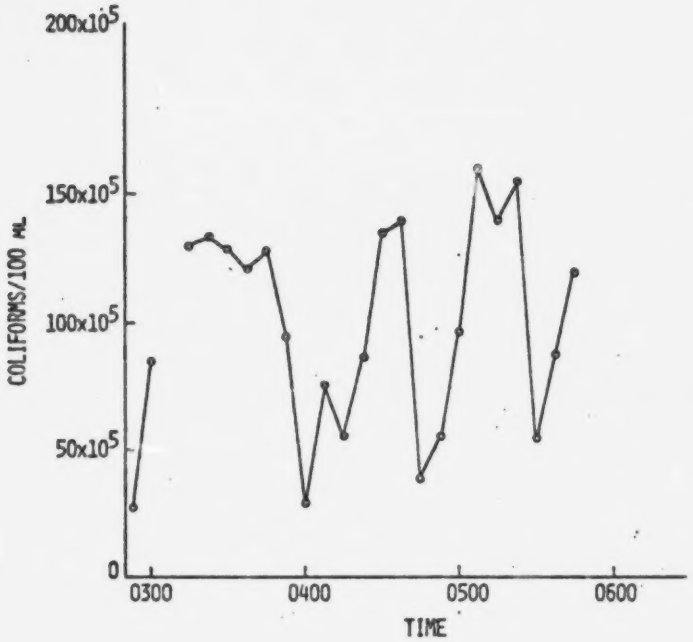


Figure 6-323 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

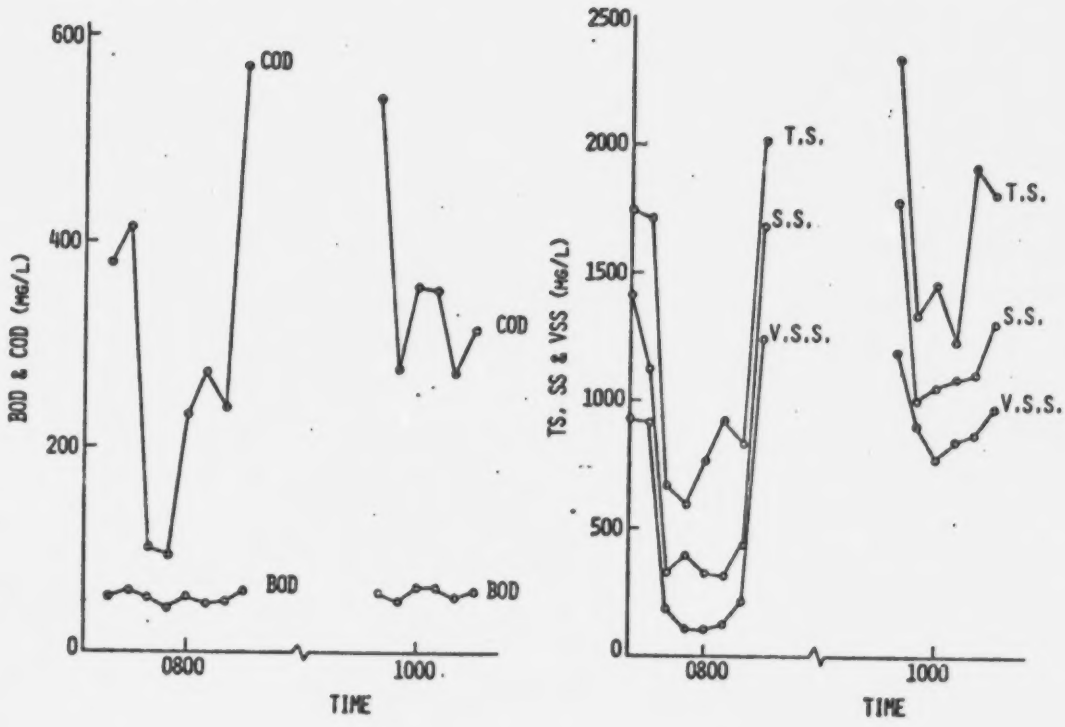


Figure 6-324 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

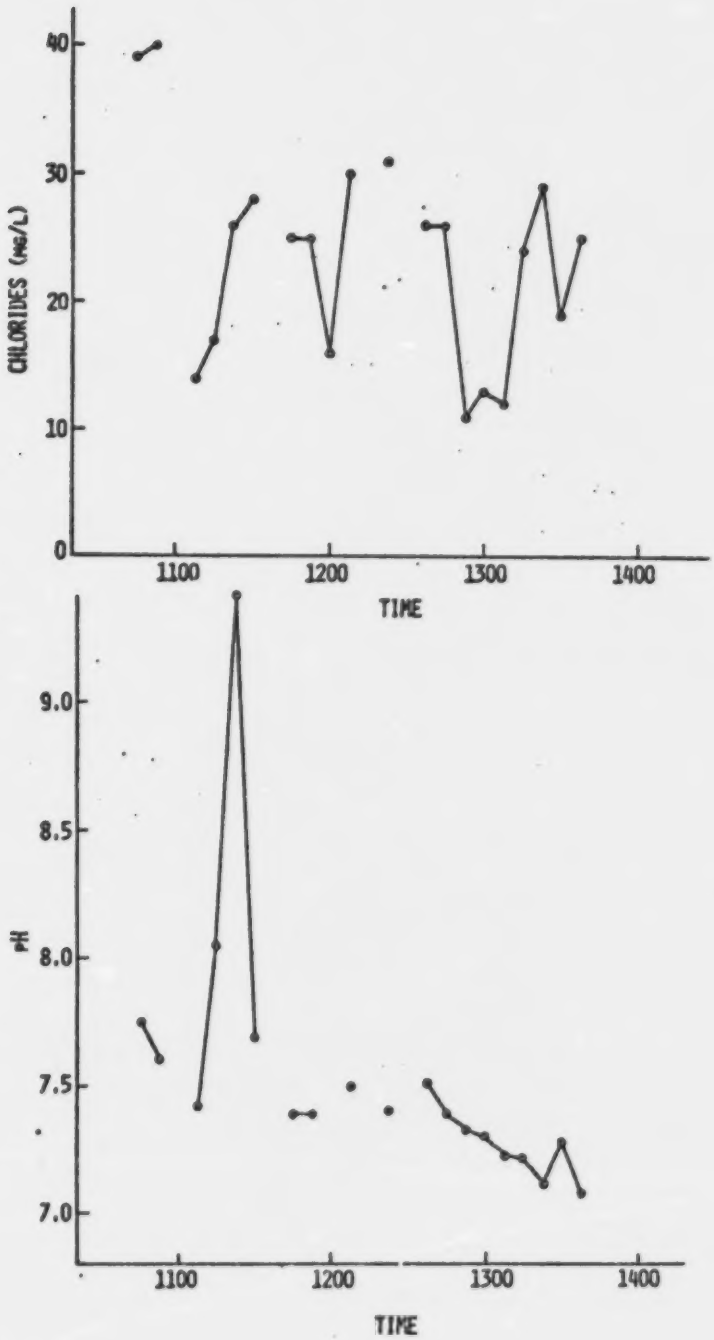


Figure 6-325 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

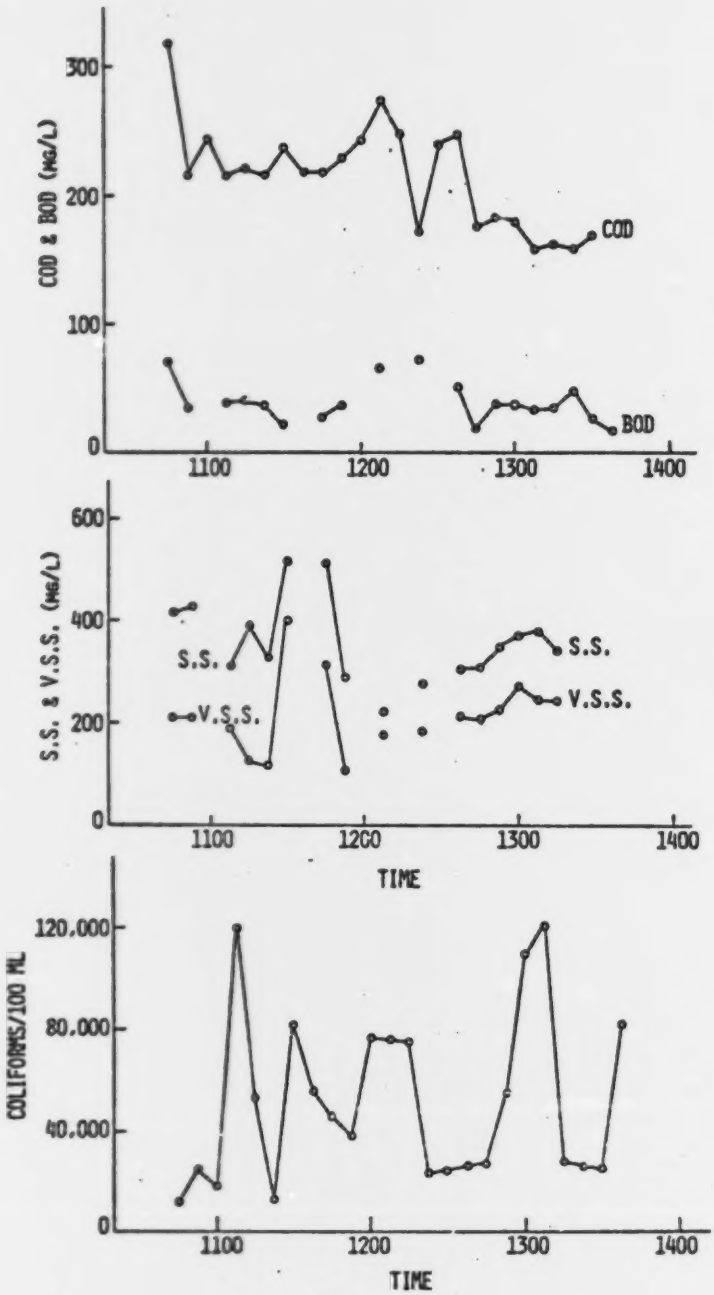


Figure 6-326 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

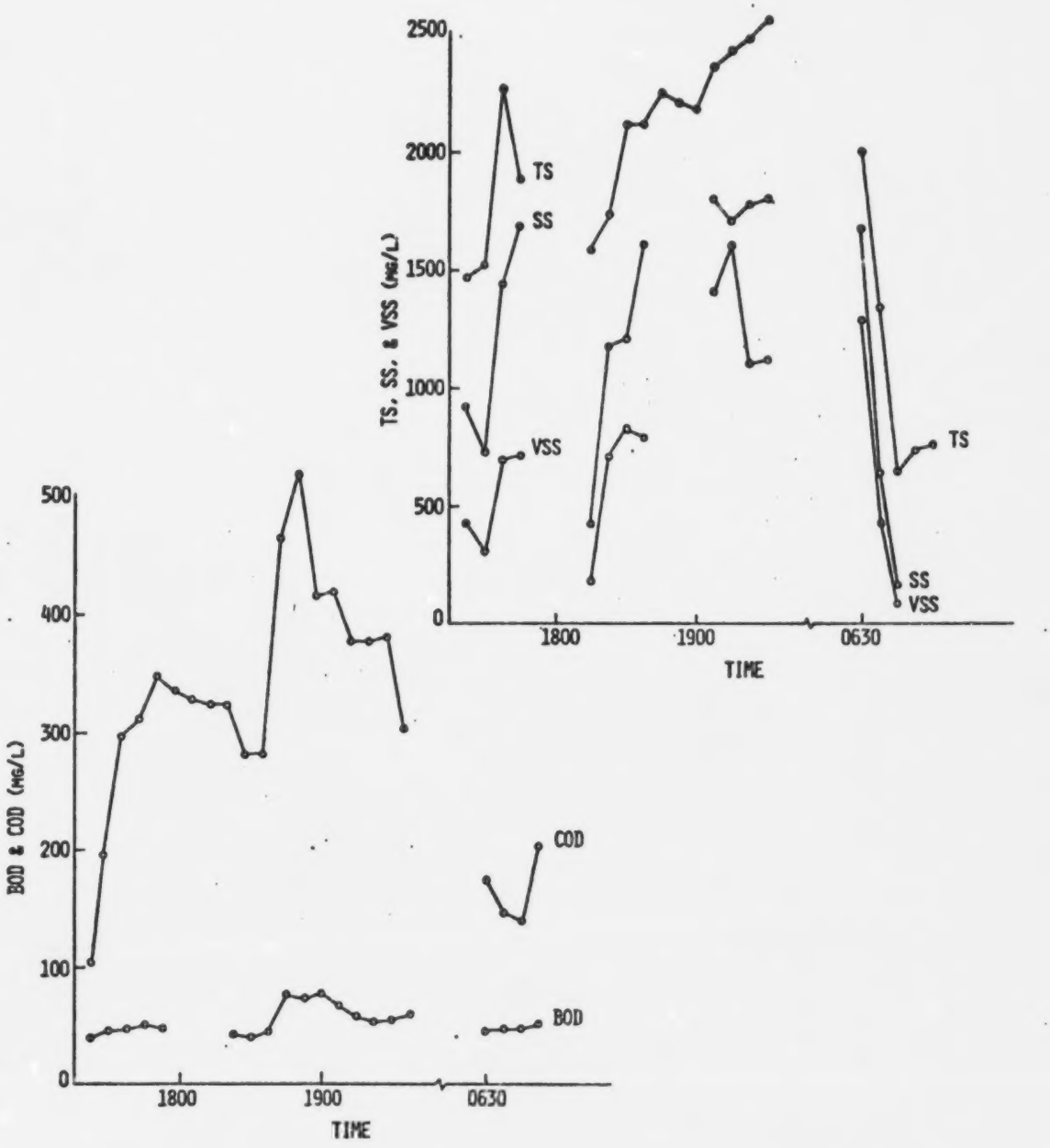


Figure 6-327 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3 & 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

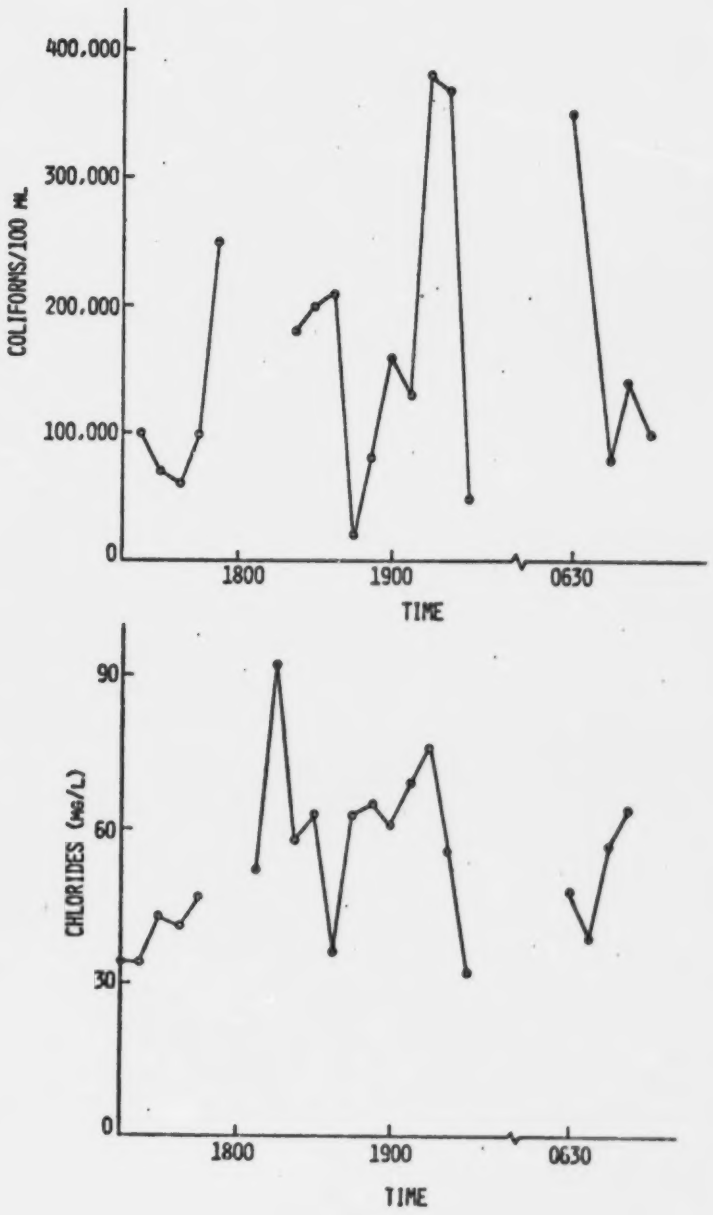


Figure 6-328 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3 & 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

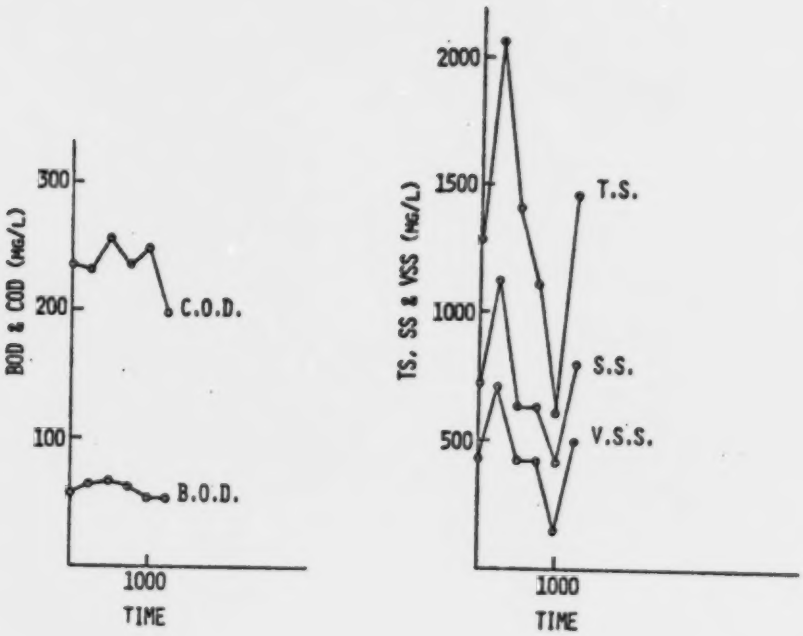


Figure 6-329 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 4, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-92 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 2, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage							
0815	0.60	.24	.90	389	167	107	-	36	6.75	1.0
0822:30	0.12	.48	.90	1341	583	384	105	240	7.60	2.5
0830	0.12	.12	.90	412	179	109	-	77	7.16	2.5
0837:30	.96	.60	.74	796	693	343	-	68	7.92	2.0
0845	.96	1.20	.74	532	266	176	45	68	7.09	2.0
0852:30	.36	.46	.74	688	345	145	14	62	7.04	3.0
0900	.36	.24	.60	692	380	182	11	55	7.14	2.5
0907:30	.24	.48	.60	694	442	196	11	55	7.12	2.5
0915	.24	.24	.60	712	492	321	14	40	7.30	3.5
0922:30	.24	.72	.60	724	294	201	32	59	6.95	3.5
0930	.24	-	.60	498	430	304	34	68	6.91	2.0
0937:30	.36	.24	.14	517	294	271	11	66	7.30	-
0945	.24	.36	.14	423	341	171	16	40	7.17	3.0
0952:30	.24	.36	.28	429	323	142	-	33	7.12	1.0
1000	.24	.36	.28	716	284	129	-	11	-	1.0
1007:30	-	.12	-	524	277	176	38	55	6.90	1.0
1015	-	-	-	514	333	129	27	51	7.08	3.0
1022:30	-	-	.06	512	288	148	21	62	7.08	2.0
1030	-	-	.14	428	228	122	13	84	7.26	2.5
1037:30	-	-	-	300	293	171	13	95	7.45	2.5
1045	-	-	-	299	226	145	39	76	7.31	3.0
1052:30	-	-	-	378	273	135	25	62	7.35	3.5
1100	-	-	-	433	175	172	37	68	6.91	2.5
1107:30	-	-	-	-	-	-	13	66	7.03	2.5

Table 6-93 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 2, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr) Laidlaw Gage	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Cl
1315	.06	176	49	43	50	8
1322:30	-	148	87	44	178	4.5
1330	-	185	78	45	196	4
1337:30	-	129	79	33	43	4.5
1345	-	148	76	48	50	4
1352:30	-	126	49	32	43	3.5
1400	-	226	52	35	71	5
1407:30	-	373	56	32	71	5.5
1415	-	257	63	36	53	6
1422:30	-	247	74	29	75	5
1430	-	274	78	32	135	12
1437:30	-	275	87	32	121	5
1445	-	180	94	29	85	7
1452:30	-	214	91	28	168	4
1500	-	114	39	31	171	6
1507:30	-	178	48	31	161	6
1515	-	192	76	32	153	6
1522:30	-	195	32	28	97	6
1530	-	175	49	33	89	4
1537:30	-	148	42	32	85	5
1545	-	192	39	28	132	5
1552:30	-	171	71	26	50	5
1600	-	-	-	23	100	6

Table 6-94 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 3, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Woodward Gage	Ridge Gage							
0852:30	-	-	-	321	196	24	77	172	7.11	8
0900	-	-	-	348	122	50	72	164	7.17	10
0907:30	.06	-	-	392	135	46	61	120	7.06	4
0915	.06	-	-	311	159	42	62	84	7.06	8
0922:30	-	-	-	426	221	84	61	100	7.11	3
0930	-	-	-	401	118	30	53	100	7.17	2
0937:30	.12	-	-	499	80	37	58	116	7.37	5
0945	.12	-	-	321	91	05	58	100	7.18	2
0952:30	.12	-	-	288	88	43	59	120	7.19	3
1000	.12	-	-	276	91	41	55	116	7.17	5
1007:30	.12	.12	.24	245	86	27	59	120	7.32	6
1015	.12	.12	.12	211	117	51	60	120	7.48	6
1022:30	.12	.36	.12	205	118	28	60	120	7.34	5
1030	.12	.24	.24	298	198	111	55	96	7.37	4
1037:30	.12	.12	.12	271	126	64	55	84	7.22	2
1045	.12	-	.12	241	163	55	52	100	7.17	3
1052:30	.24	.12	.12	227	124	87	46	84	-	3

Table 6-95 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 3, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage						
1337:30	.48	1.08	.60	10.6	340	275	261	18	46
1345	.36	1.2	.60	8.5	270	254	240	14	42
1352:30	.36	.72	.24	8.5	340	313	299	15	46
1400	.36	1.08	.12	8.5	-	325	301	19	61
1407:30	2.40	.36	.36	8.5	342	327	303	15	53
1415	2.40	.24	.48	6.4	296	259	241	12	53
1422:30	.72	.18	.60	5.5	232	229	216	12	53
1430	.72	1.44	.48	6.4	-	307	288	14	38
1437:30	.06	2.40	1.80	6.4	-	283	255	14	61
1445	.06	1.80	1.80	6.4	-	265	249	14	46
1452:30	.06	.12	1.80	6.4	-	216	200	14	46
1500	.06	-	-	6.4	-	303	287	18	30
1507:30	-	-	-	23.6	-	300	285	18	53
1515	-	-	-	19.6	-	300	277	19	53
1522:30	-	-	-	18.1	-	307	286	23	49
1530	-	-	-	15.0	-	371	354	20	61
1537:30	-	-	-	10.6	-	370	289	14	61
1545	-	-	-	23.6	-	378	255	19	46
1552:30	-	-	-	35.7	-	258	216	18	49
1600	-	-	-	55.0	-	275	244	23	38
1607:30	-	-	-	50.0	-	237	231	18	49
1615	-	-	-	40.0	-	267	231	18	57
1622:30	-	-	-	35.7	-	379	345	14	49
1630	-	-	-	23.6	-	-	-	14	46

Table 6-96 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 3 & 4, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	pH	Cl
	Laidlaw Gage	Ridge Gage							
1645	-	-	-	158	121	22	56	7.39	3
1652:30	-	-	-	193	176	23	56	8.03	6
1700	-	-	-	134	96	25	56	9.00	5
1707:30	-	-	-	143	116	17	42	7.25	6
1715	-	-	289	117	80	21	42	9.56	6
1722:30	-	-	276	143	110	25	47	9.52	9
1730	-	-	231	114	91	25	51	9.61	8
1737:30	-	-	245	137	-	30	75	9.35	6
1745	-	-	271	181	95	28	61	9.02	6
1752:30	-	-	289	131	99	21	61	9.41	7
1800	-	-	296	131	102	19	60	9.88	7
1807:30	-	-	245	151	75	20	70	10.72	9
1815	-	-	576	143	93	27	84	11.12	7
1822:30	-	-	545	132	101	28	93	11.03	3
1830	-	-	510	148	112	32	89	10.91	6
1837:30	-	-	533	143	100	29	93	10.73	7
1845	-	-	-	123	109	27	84	10.61	7
1852:30	-	-	-	127	104	29	84	10.39	8
1900	-	-	-	106	20	25	75	10.11	9
1907:30	-	-	-	127	13	28	65	9.59	8
0630	.12	-	-	122	12	27	75	9.48	7
0637:30	-	.24	-	82	25	32	75	9.63	7
0645	-	-	-	80	25	28	65	9.41	9
0652:30	-	-	-	79	35	28	70	8.89	11

Table 6-97 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 4, 1971 MONITORING STATION: Longview 12' x 9'

Time	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	BOD	COD	Cl
0937:30	704	478	176	43	129	5
0945	3980	1624	148	33	72	5
0952:30	308	189	129	32	72	5
1000	638	312	171	28	67	6
1007:30	334	317	142	23	88	4
1015	460	210	171	23	129	4
1022:30	294	145	-	21	114	7
1030	410	211	200	31	115	2
1037:30	544	316	105	35	109	9
1045	532	322	149	32	104	3
1052:30	366	327	133	33	124	4
1100	628	189	130	33	144	5
1107:30	638	186	122	31	134	9
1115	350	124	-	29	114	6
1122:30	530	329	141	31	104	7
1130	510	310	122	43	104	1
1137:30	384	300	148	32	52	2
1145	258	200	97	32	72	4
1152:30	1222	846	356	35	108	9
1200	310	189	180	31	124	3
1207:30	548	176	148	37	104	5
1215	462	272	109	33	78	-
1222:30	464	112	17	30	72	7
1230	598	327	207	32	78	8

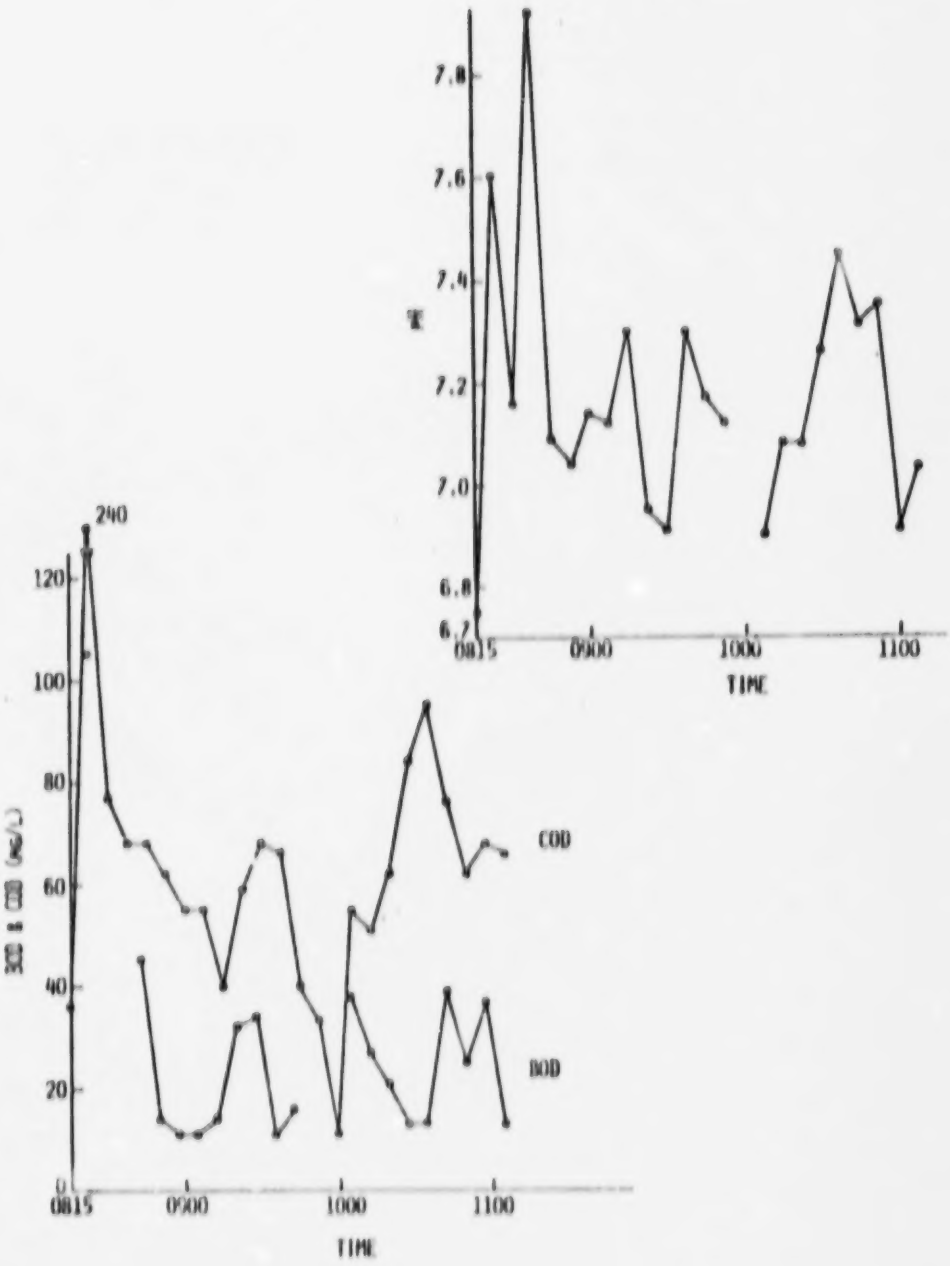


Figure 6-330 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

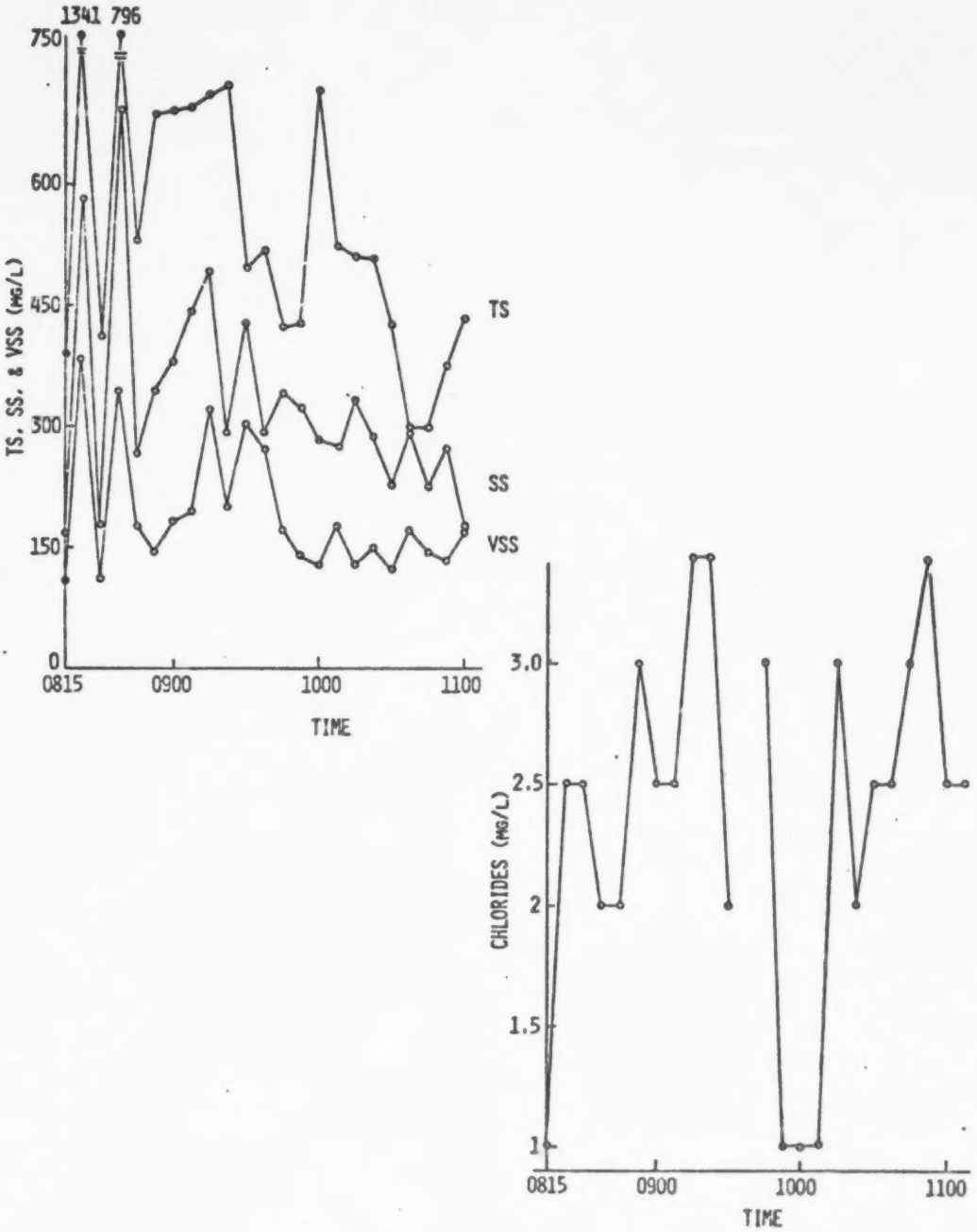


Figure 6-331 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

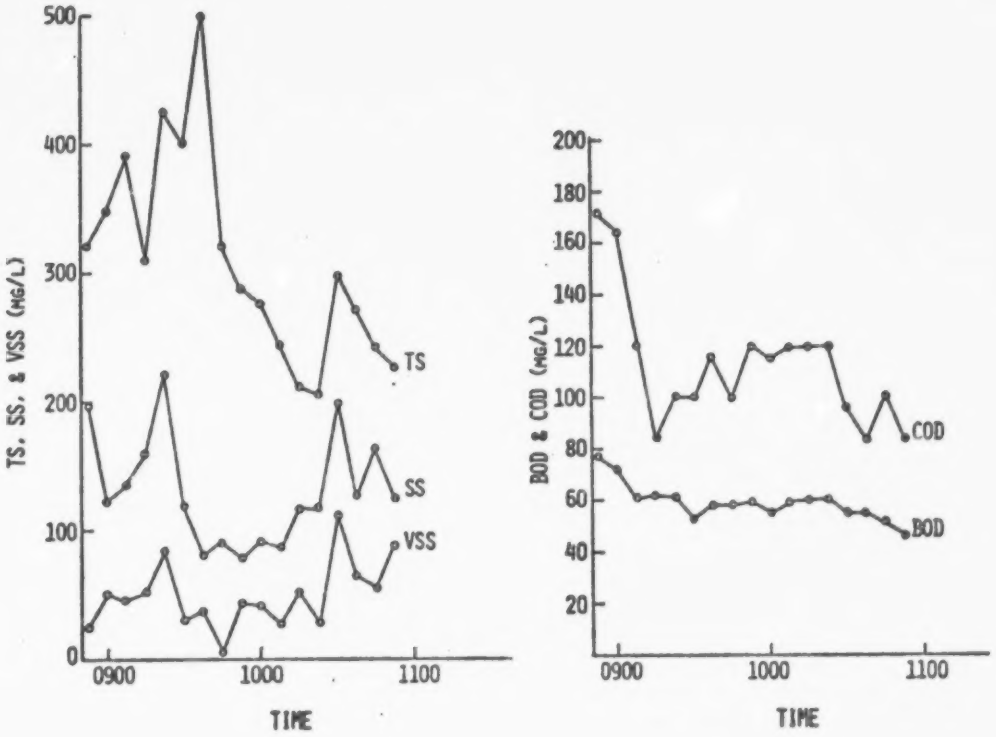


Figure 6-332 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

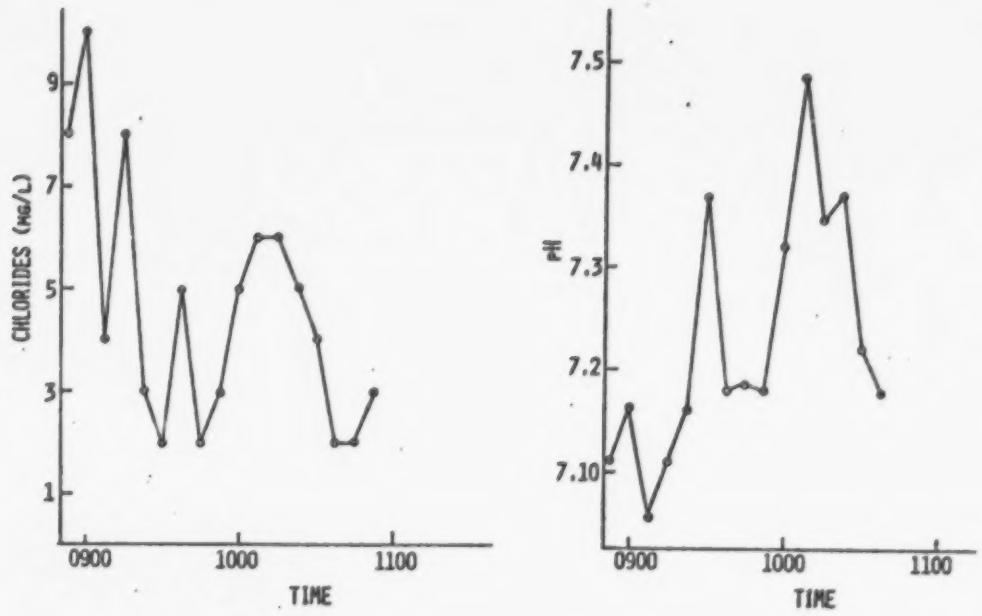


Figure 6-333 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

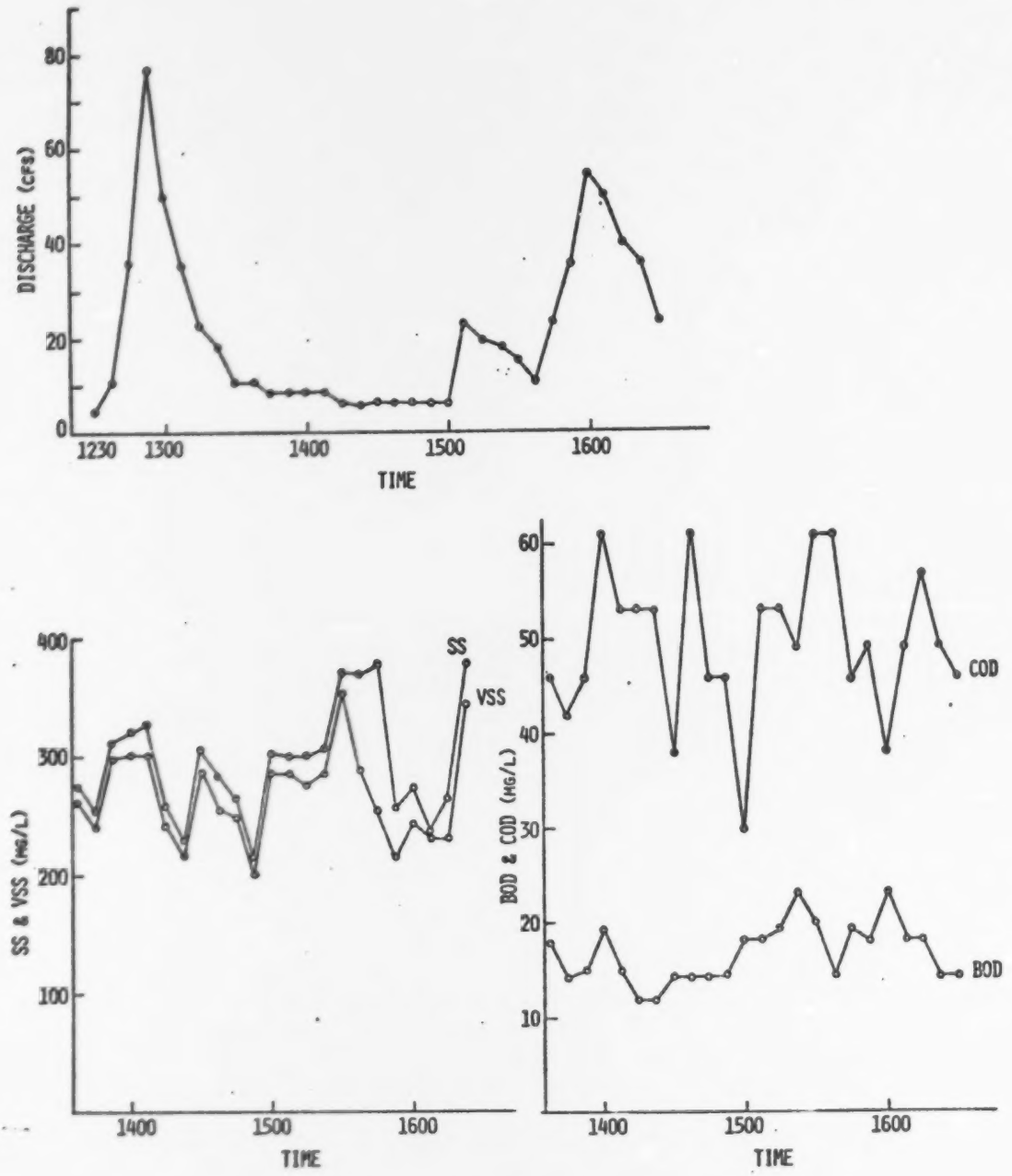


Figure 6-334 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

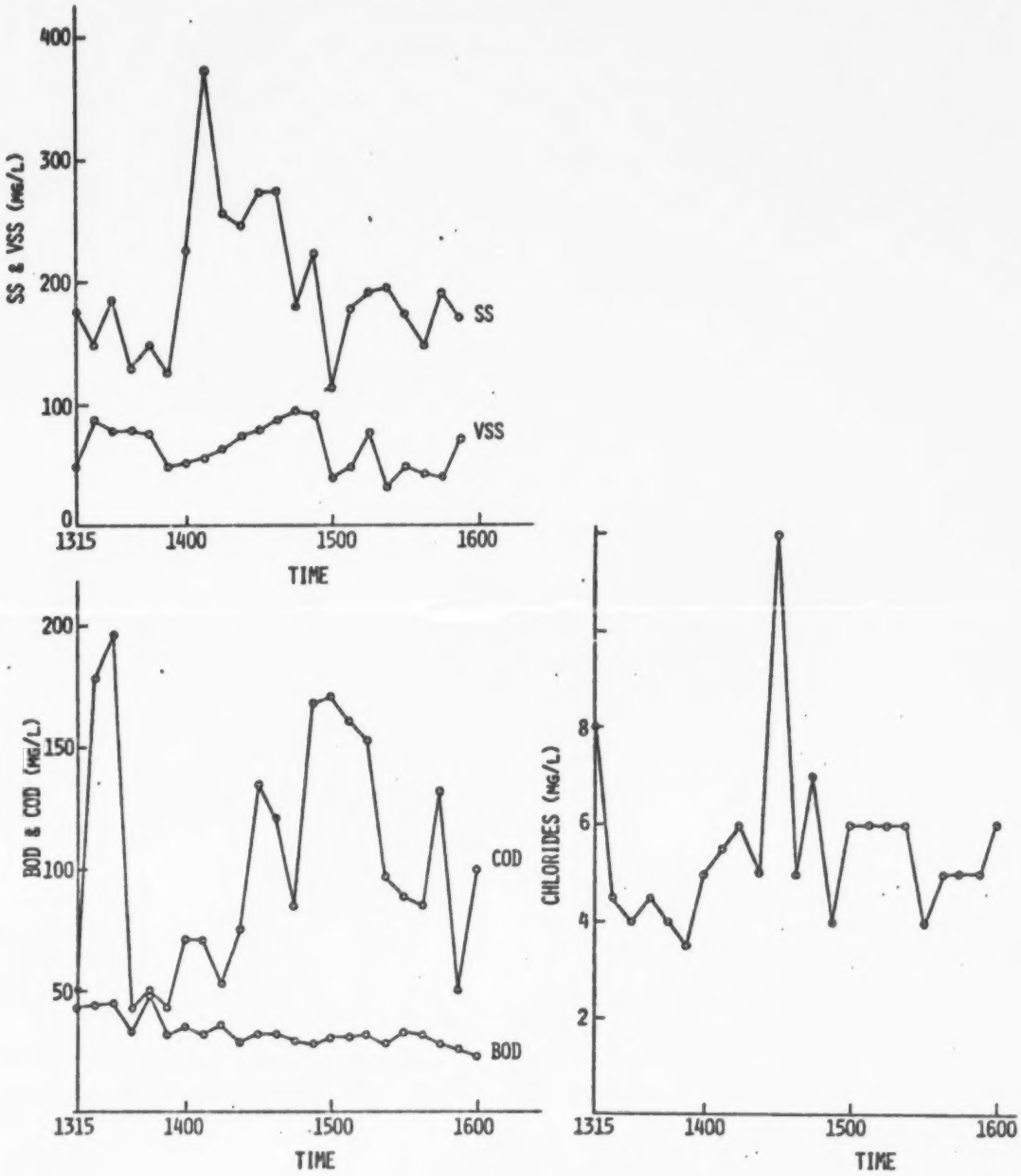


Figure 6-335 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

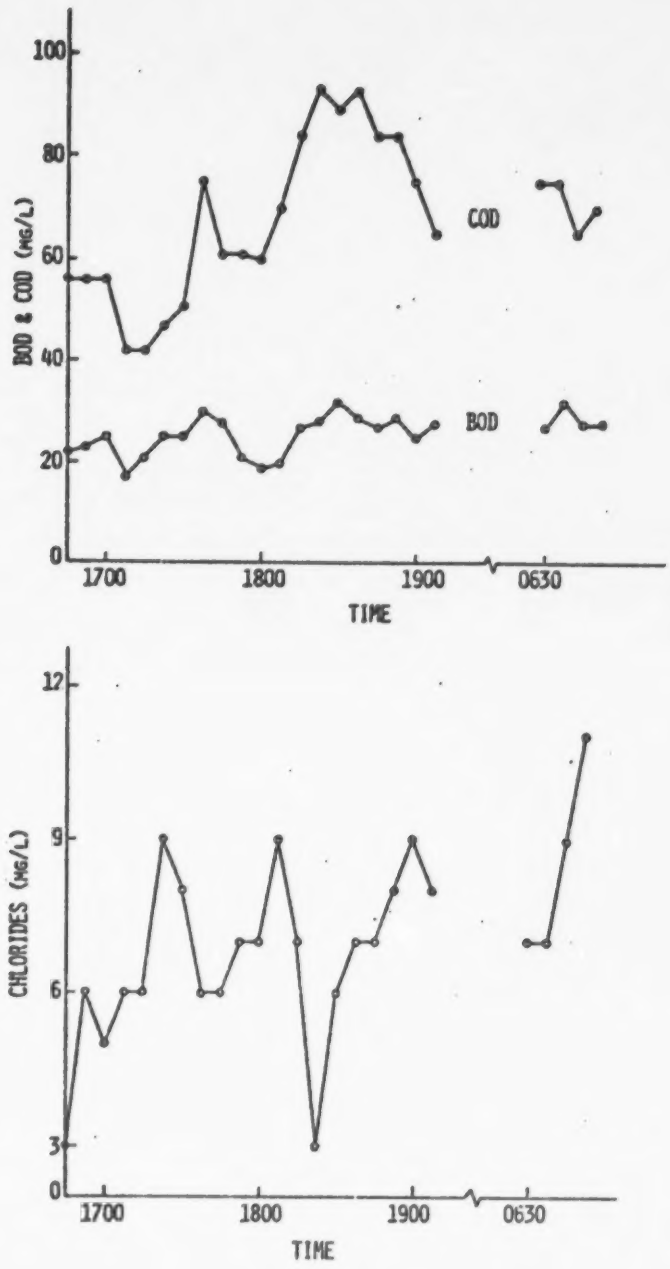


Figure 6-336 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3 & 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

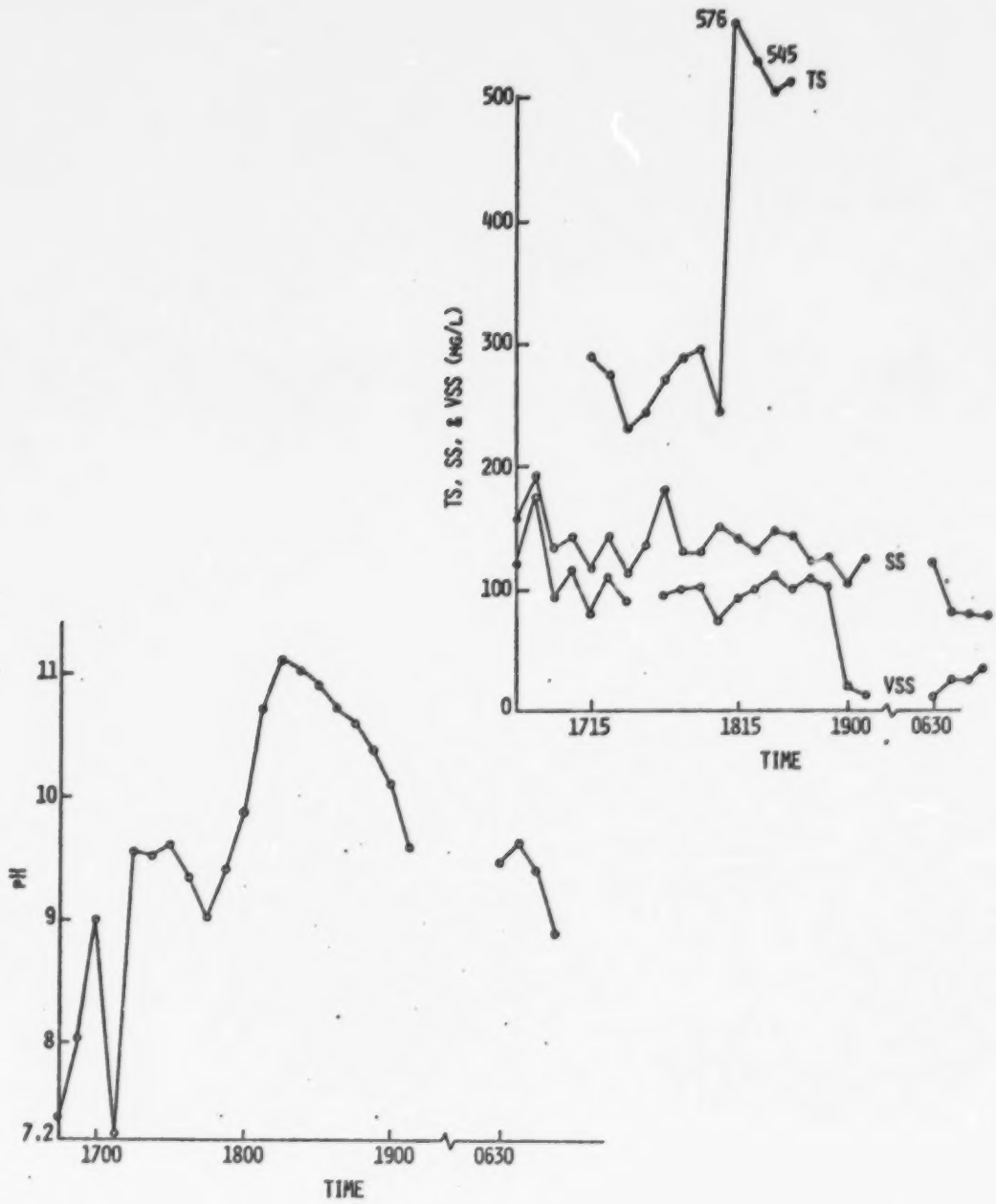


Figure 6-337 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 3 & 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

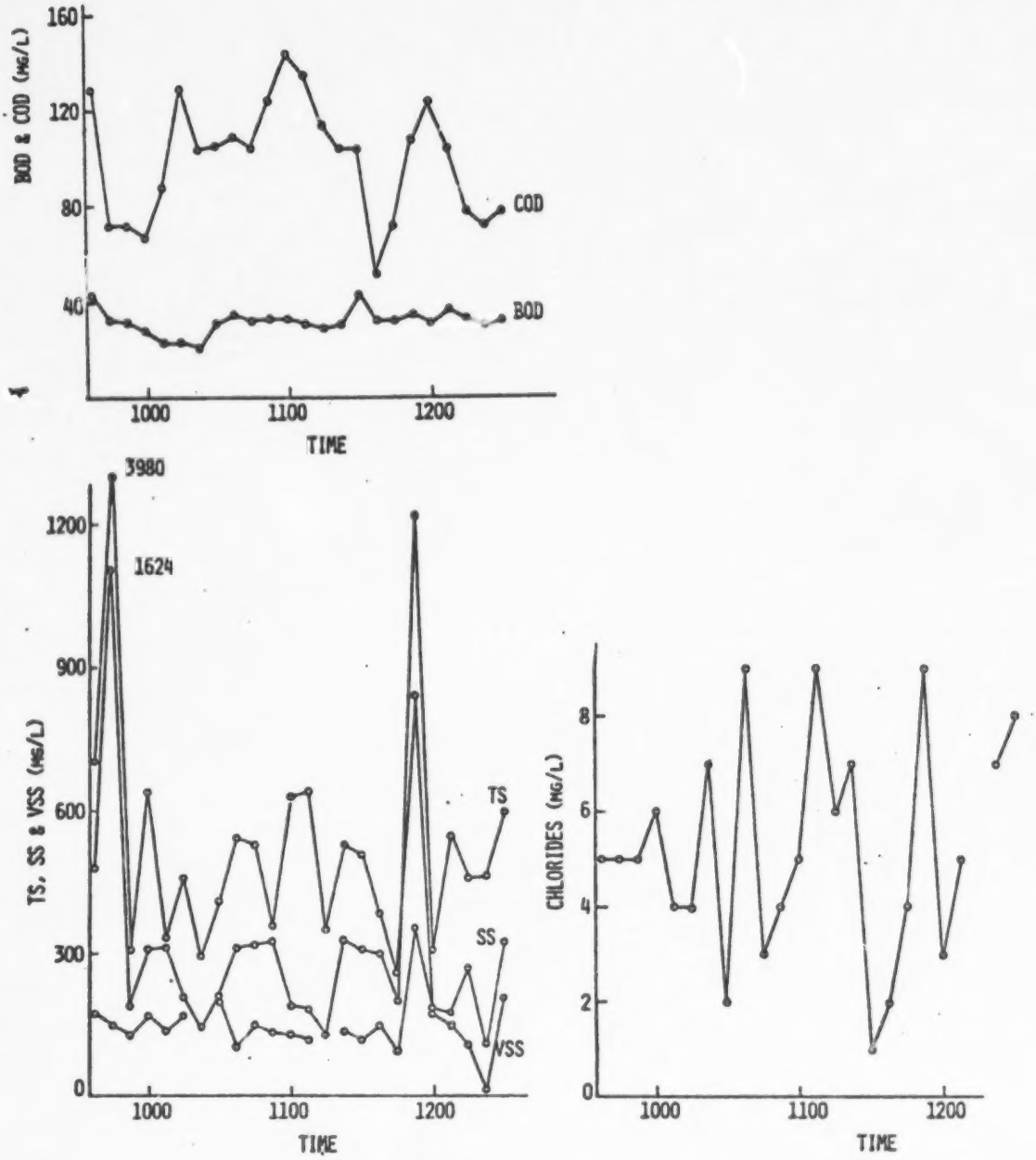


Figure 6-338 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 4, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

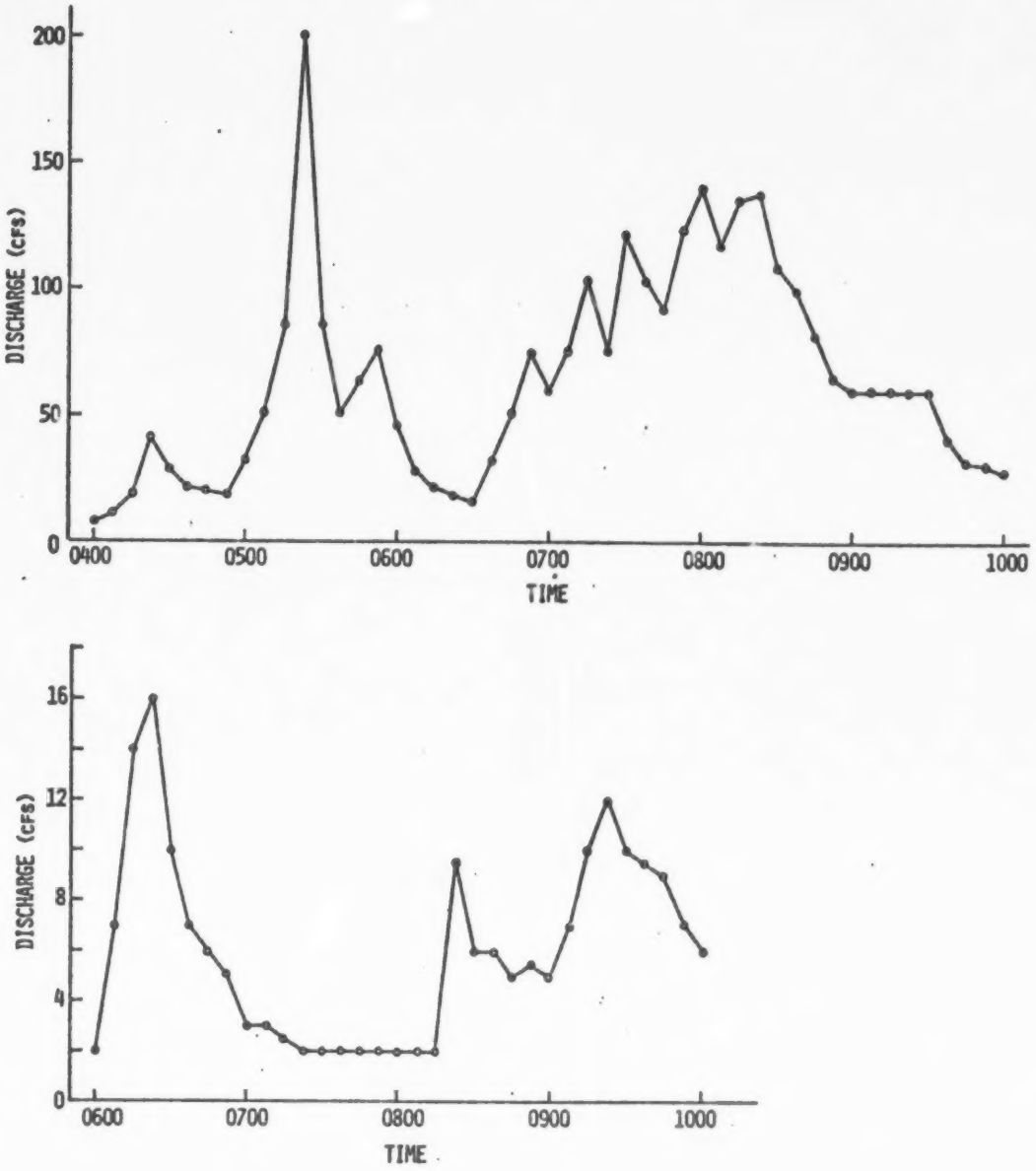


Figure 6-339 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2 & 3, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

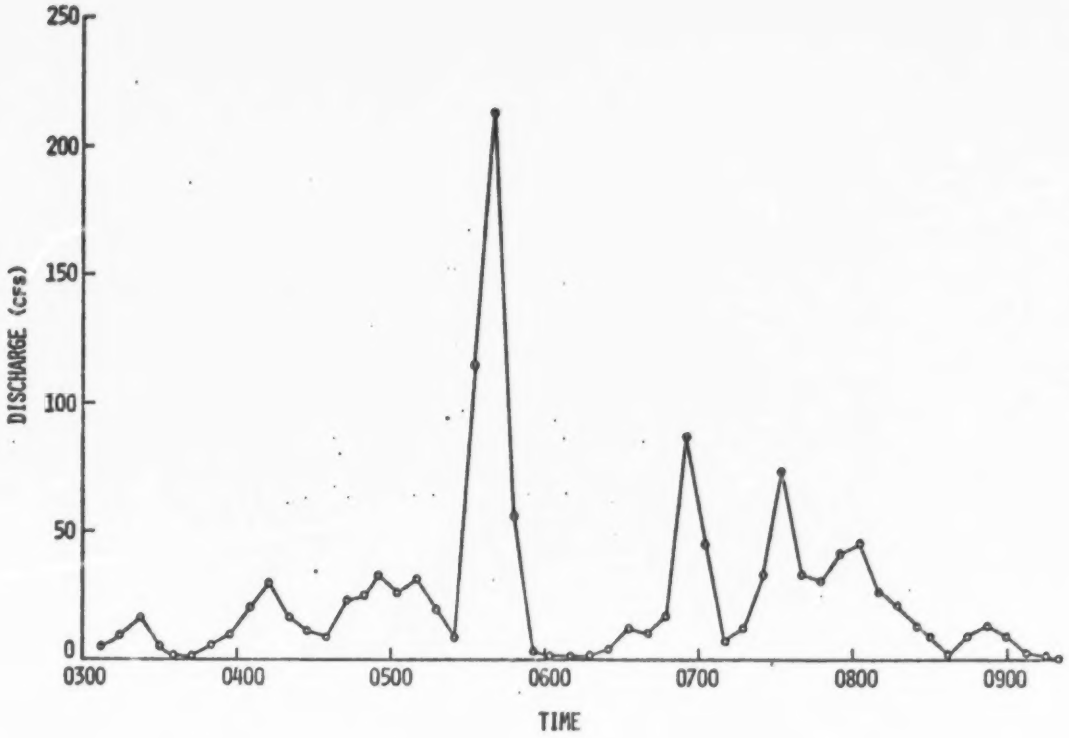
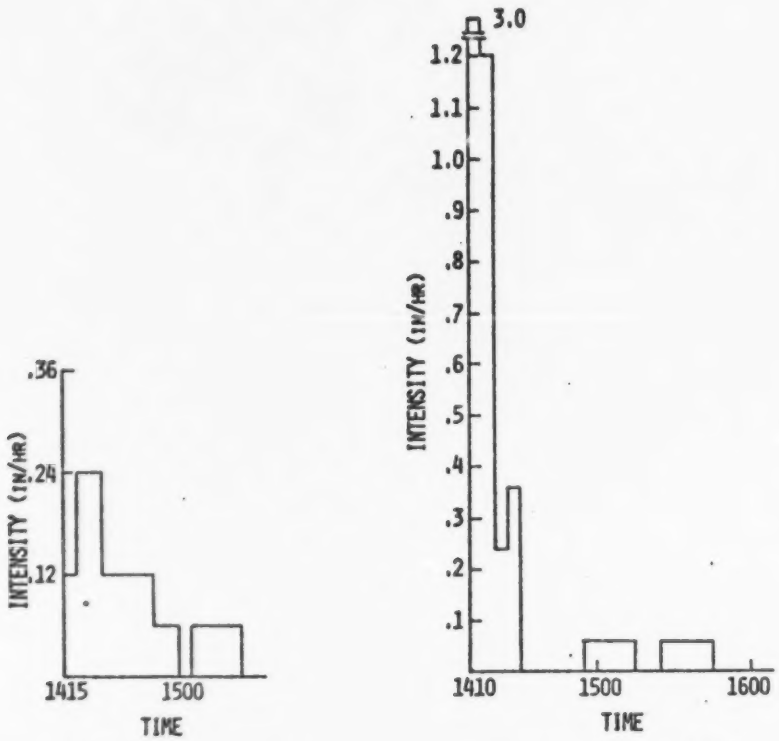


Figure 6-340 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 2, 1971
MONITORING STATION: BANK
54" SEWER



"LAIDLAW RAINGAGE" "RIDGE RAINGAGE"

Figure 6-341 RAINFALL OF SEPT. 6, 1971
HYETOGRAPHS

Table 6-98 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 6, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)		Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	COD
	Laidlaw Gage	Ridge Gage					
1322:30	-	-	596	2356	1600	917	646
1330	-	-	453	1668	1182	722	520
1337:30	-	-	405	3390	1788	1411	622
1345	-	-	950	782	412	310	614
1352:30	-	-	736	254	127	87	138
1400	-	-	530	292	188	92	146
1407:30	-	-	465	574	325	178	158
1415	.12	3.0	415	552	350	129	203
1422:30	.24	1.2	365	270	152	92	199
1437:30	.12	-	292	120	103	74	199
1445	.12	-	266	-	-	-	116
1452:30	.12	-	244	1132	428	222	100
1500	.06	.06	223	572	417	262	96
1507:30	.06	.06	176	-	-	-	88
1530	-	.06	61	734	391	198	130
1537:30	-	.06	39	356	182	107	108

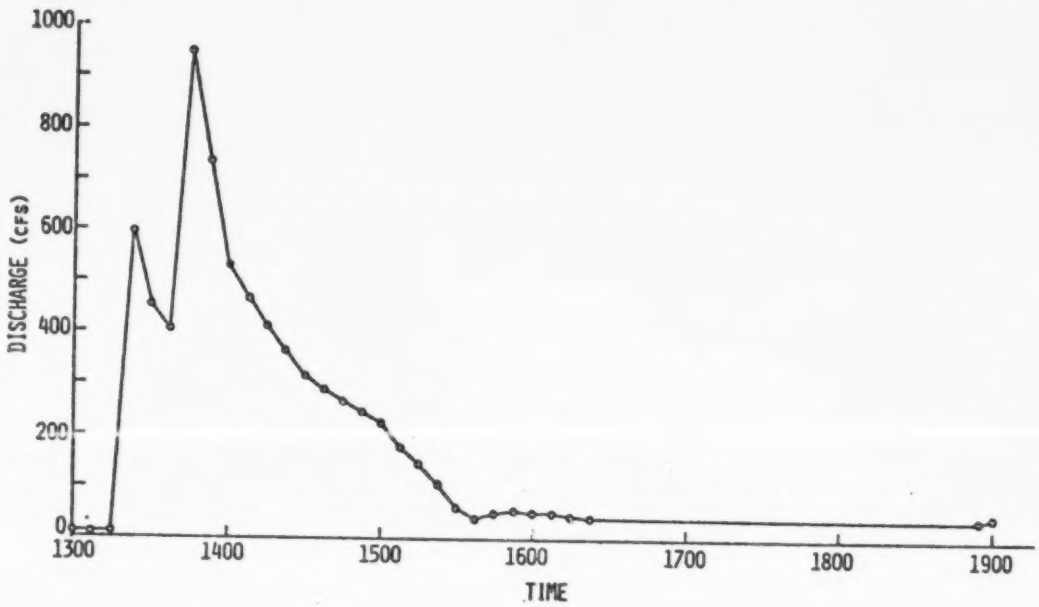


Figure 6-342 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 6, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

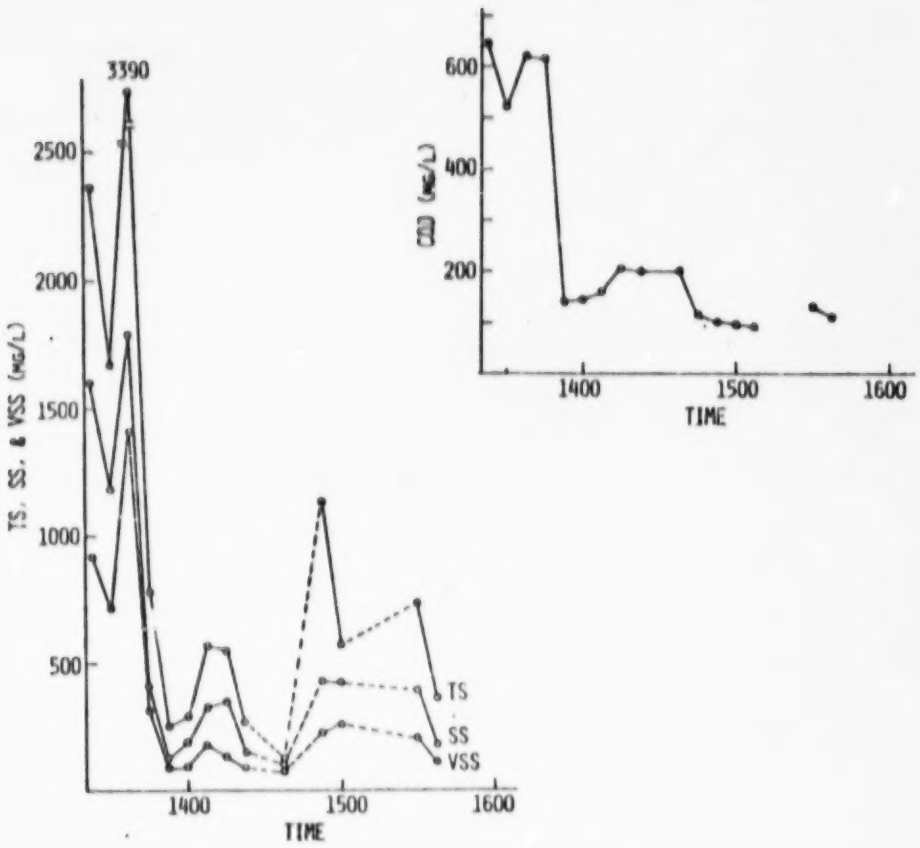


Figure 6-343 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 6, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-99 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 6, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)		Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	COD
	Laidlaw Gage	Ridge Gage				
1400	-	-	-	440	312	424
1407:30	-	-	-	312	174	172
1415	-	3.00	-	428	300	172
1422:30	.24	.24	-	333	221	125
1430	.24	.26	712	453	340	95
1437:30	.12	-	596	316	240	82
1445	.12	-	581	261	206	82
1452:30	.06	-	499	267	219	82
1500	.00	.06	516	155	109	70
1507:30	.06	.06	523	109	71	74
1515	.06	.06	517	153	120	82
1522:30	.06	-	571	128	101	78
1530	-	.06	514	176	47	78
1537:30	-	.06	491	189	165	82
1545	-	.06	382	168	46	82
1552:30	-	-	-	219	199	78
1600	-	-	-	188	158	86
1607:30	-	-	-	113	87	82
1615	-	-	-	137	106	112
1622:30	-	-	-	248	216	86
1630	-	-	-	209	174	82
1637:30	-	-	-	214	181	100
1645	-	-	-	182	145	86

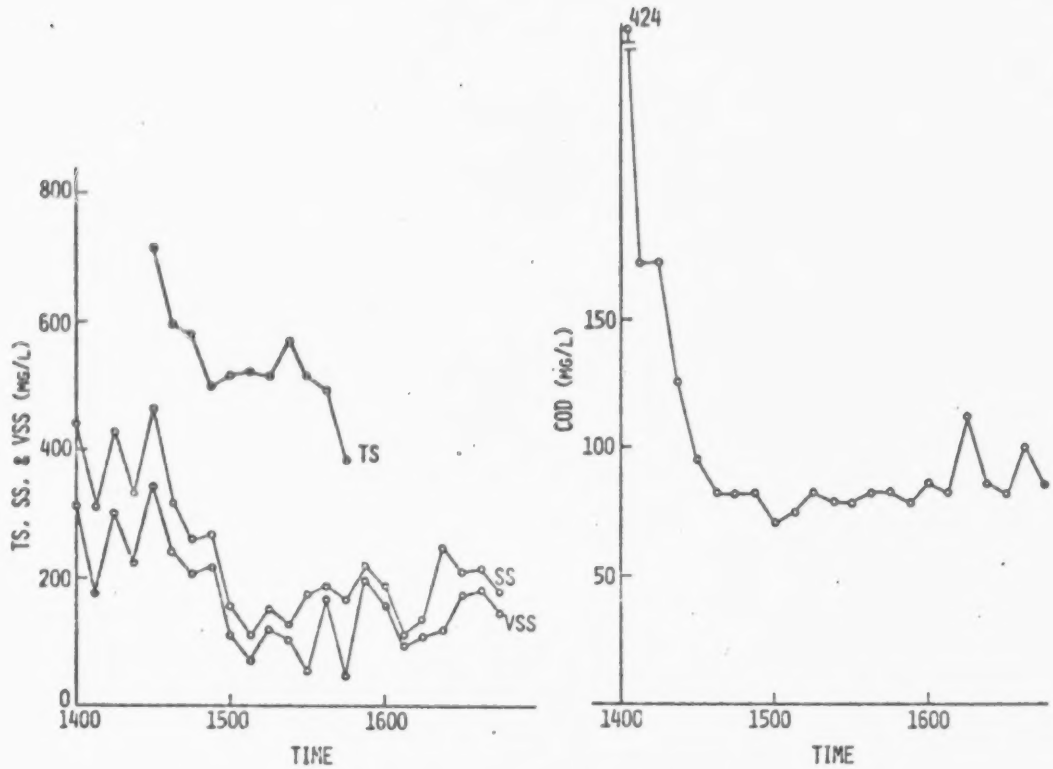


Figure 6-344 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 6, 1971
MONITORING STATION: LONGVIEW
12' x 9' SEWER

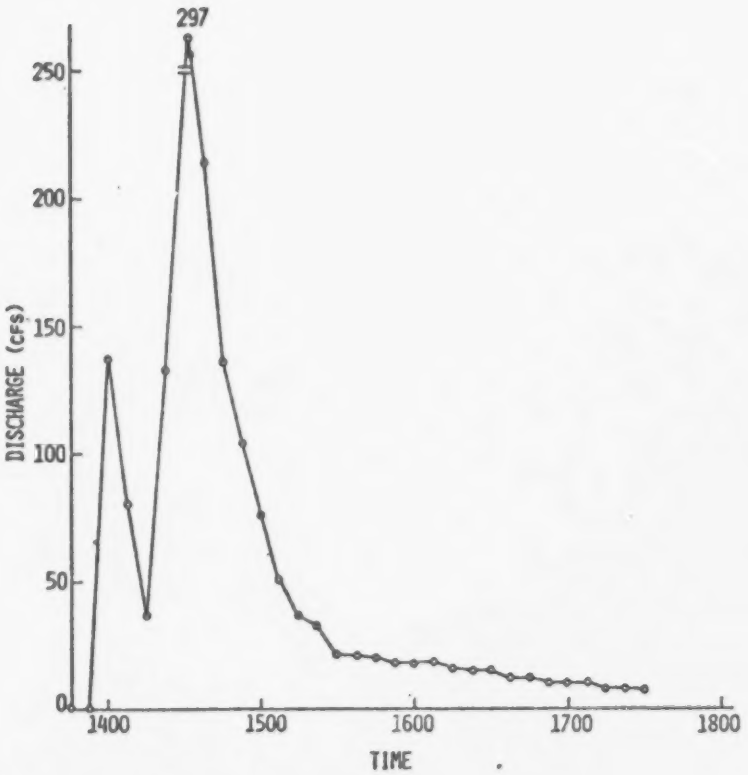


Figure 6-345 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 6, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

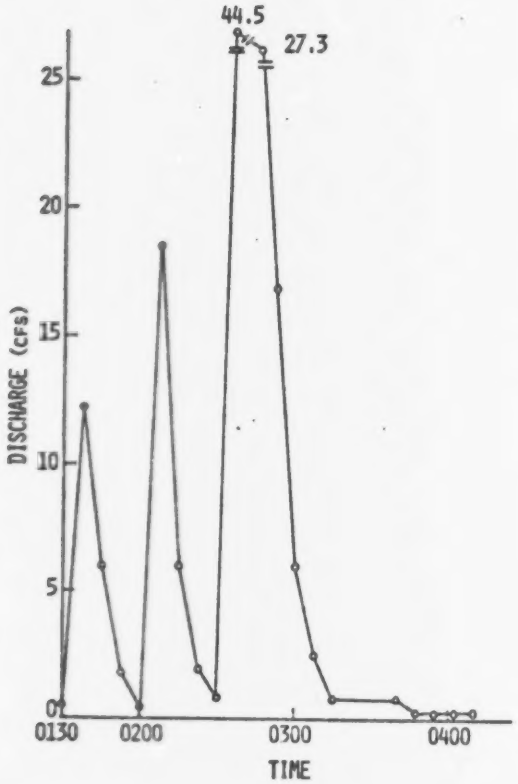


Figure 6-346 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 6, 1971
MONITORING STATION: BANK
78" SEWER

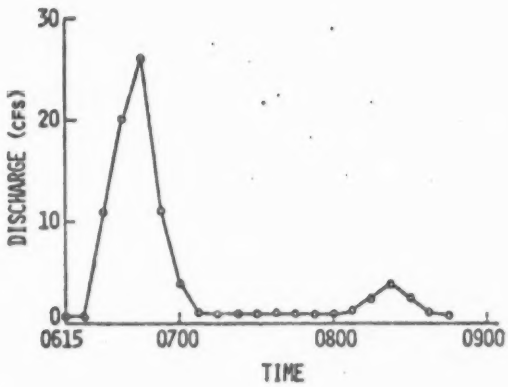


Figure 6-347 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 6, 1971
MONITORING STATION: BANK
54" SEWER

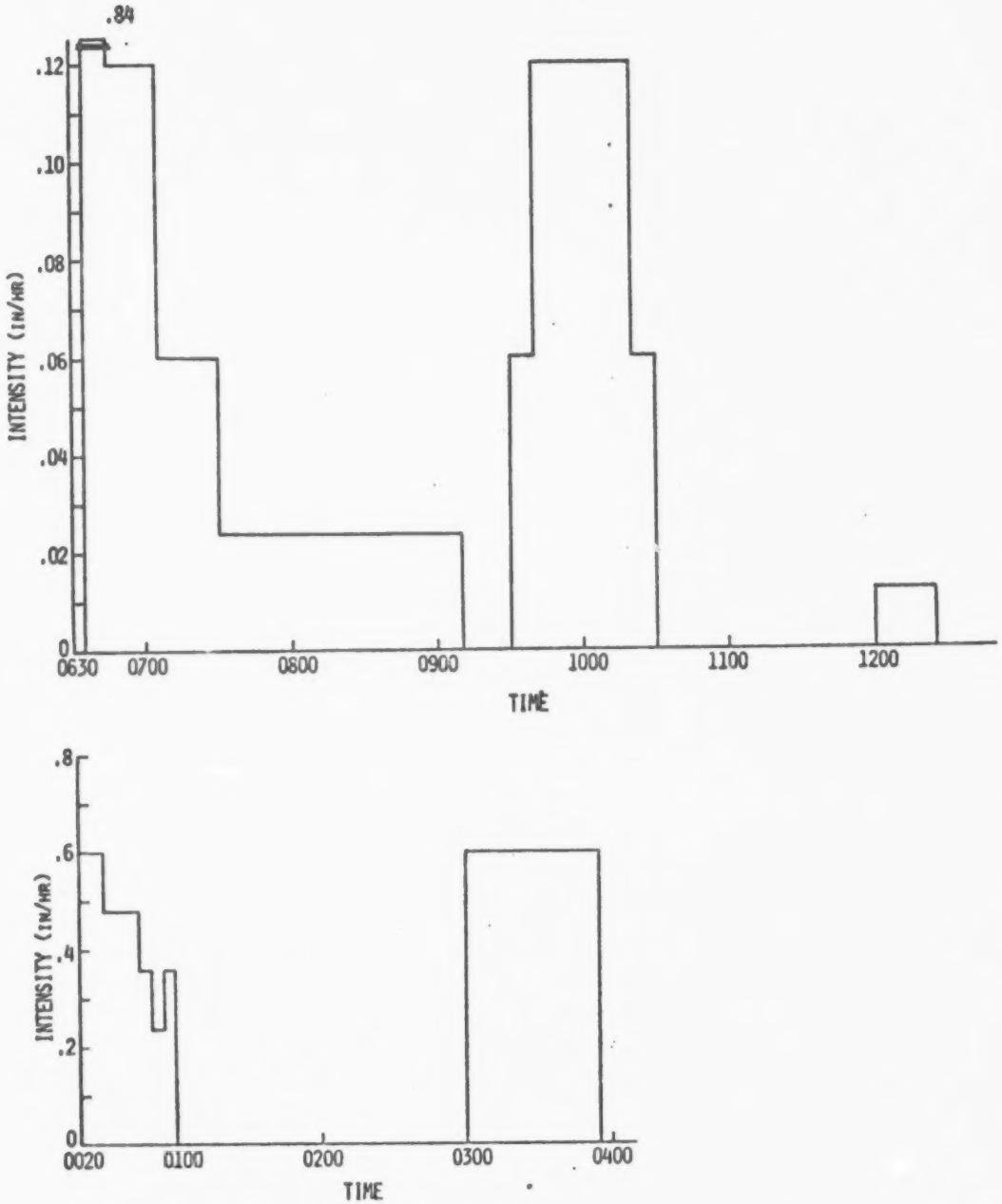


Figure6-348 RAINFALL OF SEPT. 11 & 12, 1971
LAIDLAW RAINGAGE
HYETOGRAPHS

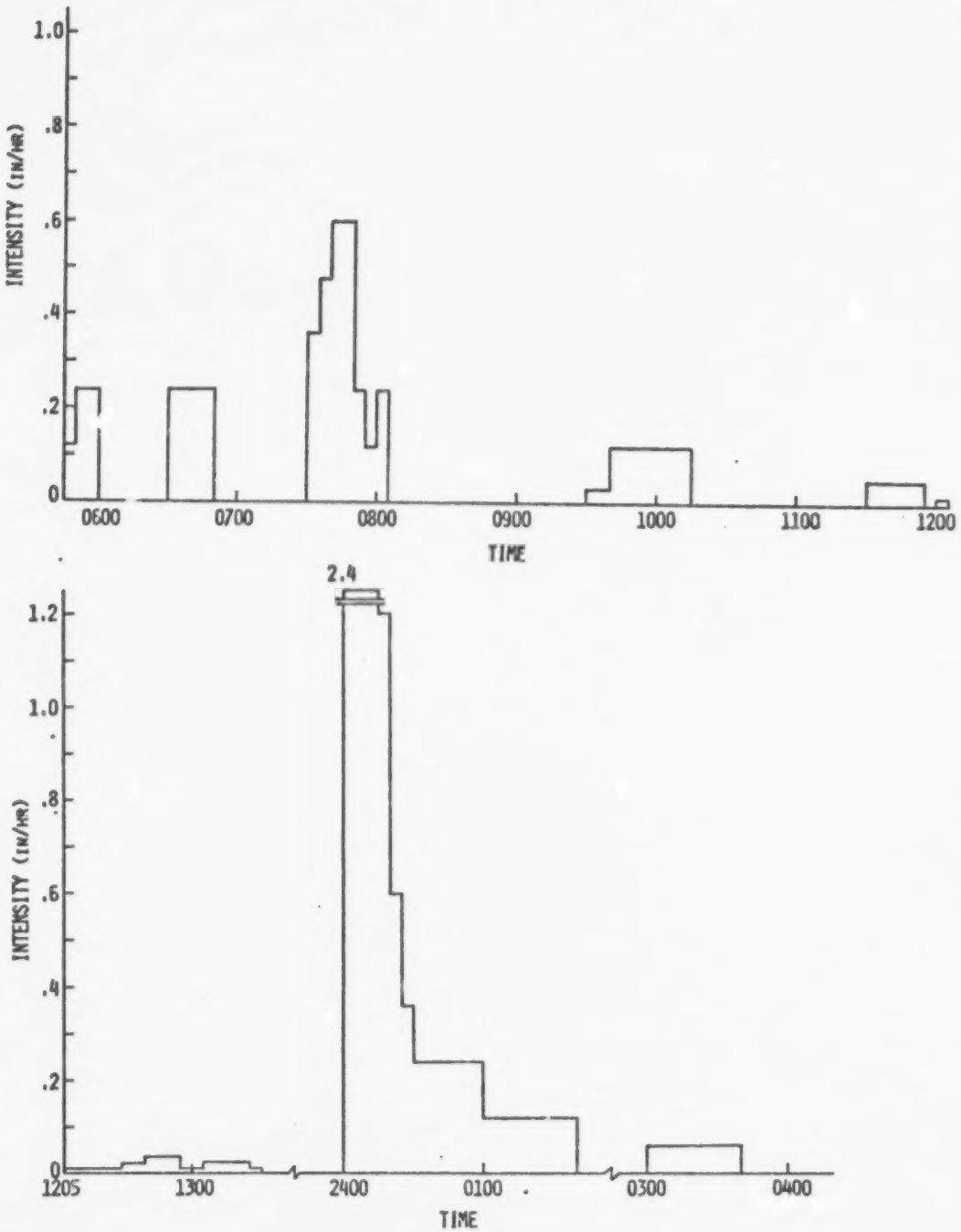


Figure 6-349 RAINFALL OF SEPT. 11 & 12, 1971
RIDGE RAINGAGE
HYETOGRAPHS

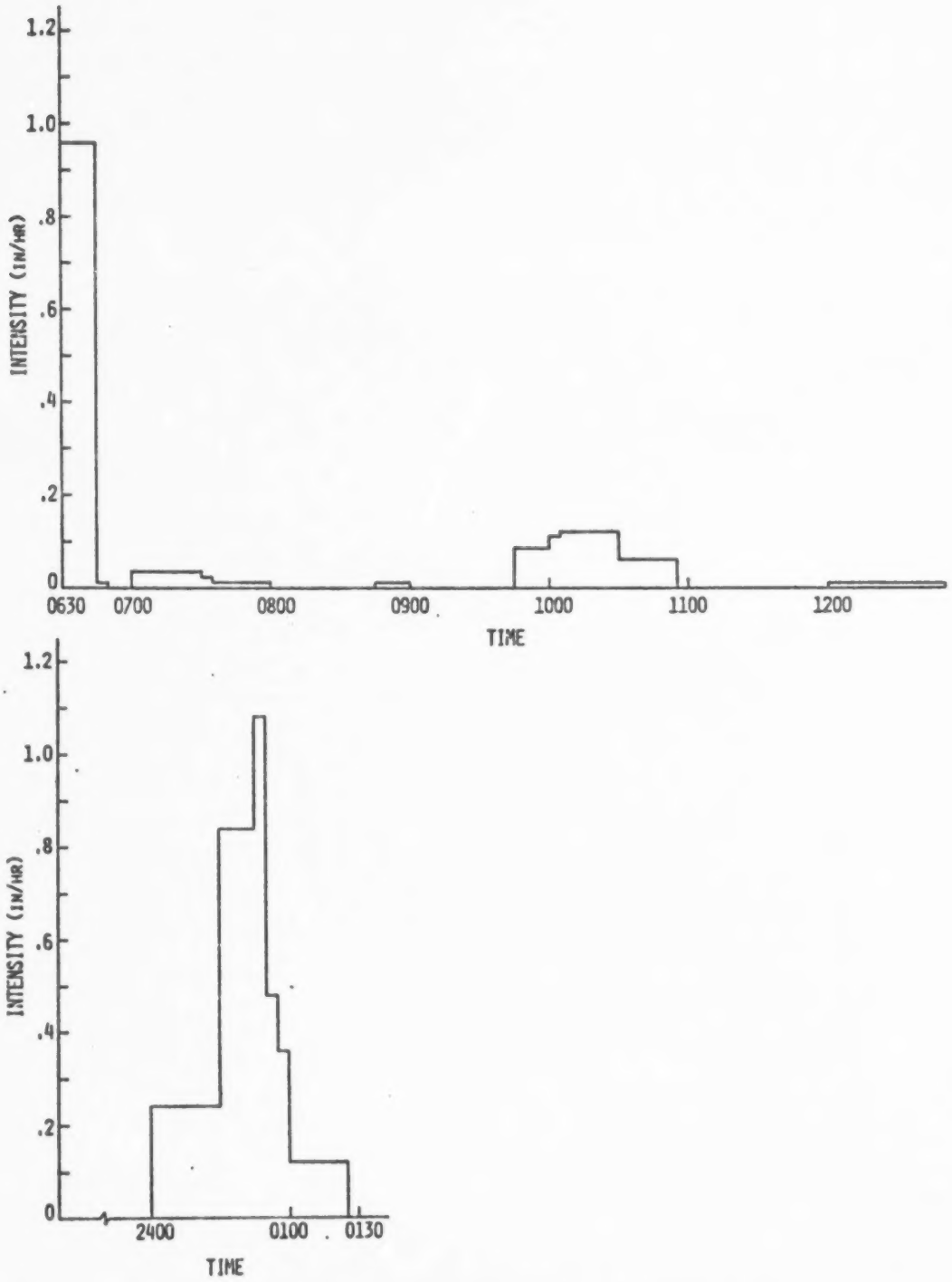


Figure 6-350 RAINFALL OF SEPT. 11 & 12, 1971
WOODWARD RAINGAGE
HYETOGRAPHS

Table 6-100 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

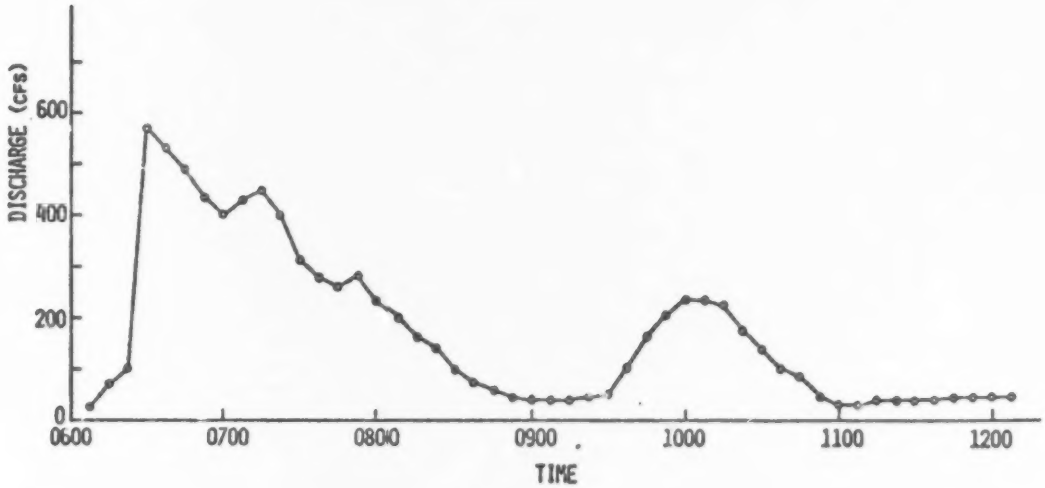
DATE OF STORM: September 11, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Coliform x 10^4
	Laidlaw Gage	Woodward Gage	Ridge Gage								
0622:30	-	-	-	123.7	1974	1124	712	53	571	-	-
0630	-	.96	-	587.3	2308	1677	428	52	580	7.19	146
0637:30	.84	.96	.24	547.5	1672	1422	419	-	-	-	24
0645	.84	.96	.24	496.2	1552	1109	716	25	281	7.78	32
0652:30	.12	-	-	398.0	758	428	182	21	273	7.76	28
0700	.12	-	-	425.6	738	452	116	28	352	7.57	17
0707:30	.06	.036	-	496.2	1170	714	238	32	285	7.47	86
0715	.06	.036	-	528.0	544	352	109	28	218	7.58	3
0722:30	.06	.036	-	363.5	452	327	89	15	210	7.51	8
0730	.06	.036	-	313.8	452	307	76	14	265	7.58	5
0737:30	.024	.012	.48	280.0	578	311	79	13	285	7.58	3
0745	.024	.012	.60	266.70	856	529	275	17	281	7.57	10
0752:30	.024	.012	.24	280.0	788	423	140	14	285	7.60	12
0800	.024	.012	.12	236.6	842	412	139	23	273	7.49	11
0807:30	.024	-	-	165.7	960	516	307	29	281	7.58	18
0815	.024	-	-	104.4	916	519	341	22	269	7.56	19
0822:30	.024	-	-	94.6	728	475	209	25	190	7.71	42
0830	.024	-	-	165.7	824	495	291	26	198	7.80	31
0937:30	.06	-	.03	208.7	1574	1124	545	23	380	7.89	24
0945	.12	-	.12	236.7	1690	1286	620	23	372	7.87	162
0952:30	.12	.084	.12	236.7	1368	1109	701	25	384	7.59	152
1000	.12	.084	.12	236.7	228	172	49	14	285	-	30
1007:30	.12	.12	.12	236.7	942	478	235	14	285	7.70	20

Table 6-101 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 11 & 12, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	BOD	COD	pH	Cl	Coliform x 10^5
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2300	-	-	-	44	-	-	-	-	155	-	-	23
2307:30	-	-	-	315	616	428	211	23	207	6.74	5	30
2315	-	-	-	920	788	476	210	18	78	7.21	3	27
2322:30	-	-	-	902	1054	780	231	16	280	7.22	5	17
2330	-	-	-	902	794	406	242	15	65	7.14	2	42
2337:30	-	-	-	854	772	433	251	14	52	7.13	3	5
2345	-	-	-	690	600	292	145	25	129	7.08	2	24
2352:30	-	-	-	635	574	276	171	18	86	7.09	4	-
2400	-	-	-	595	490	207	109	18	86	6.99	35	11
0007:30	-	.24	1.25	525	344	189	141	15	43	6.93	45	24
0015	-	.24	1.25	480	334	176	171	14	43	7.09	5	31
0022:30	.6	.24	.60	415	368	172	143	18	52	7.22	3	29
0030	.6	.24	.36	382	352	184	95	18	56	7.29	4	4
0037:30	.48	.84	.24	358	354	176	98	14	78	7.59	5	12
0045	.48	.84	.24	325	376	129	92	14	52	7.60	5	10
0052:30	.24	.48	.24	302	360	178	78	12	43	7.56	5	33
0100	.36	.36	.24	284	360	145	93	12	43	7.61	6	38
0107:30	-	.12	.12	267	536	141	86	16	48	7.39	4	14
0115	-	.12	.12	252	348	129	84	16	56	7.60	6	5
0122:30	-	.12	.12	230	342	131	75	14	48	7.39	5	19
0130	-	-	.12	223	364	171	79	14	43	7.71	5	45
0137:30	-	-	.12	195	380	145	91	14	48	7.80	9	25
0145	-	-	-	170	374	129	98	18	43	8.00	6	10



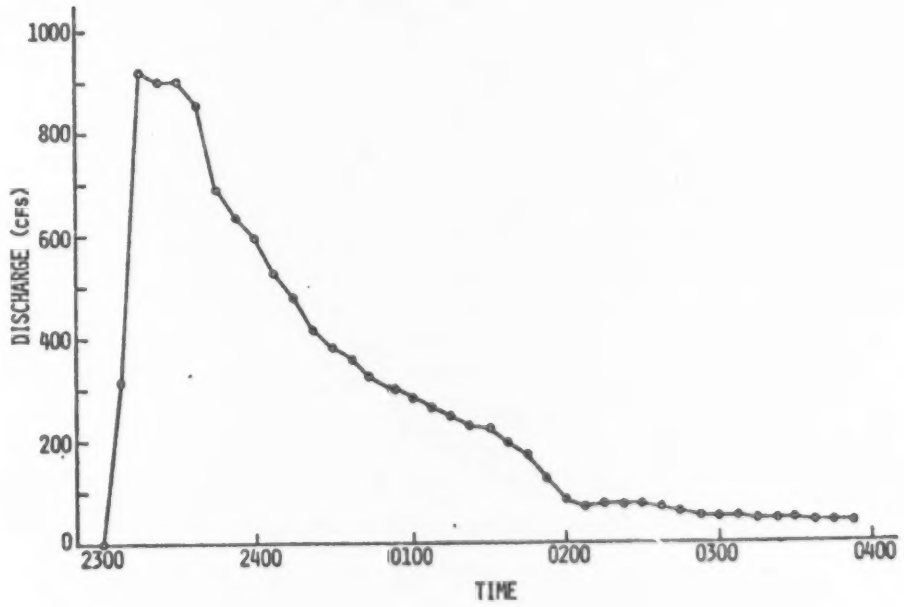


Figure 6-351 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11 & 12, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

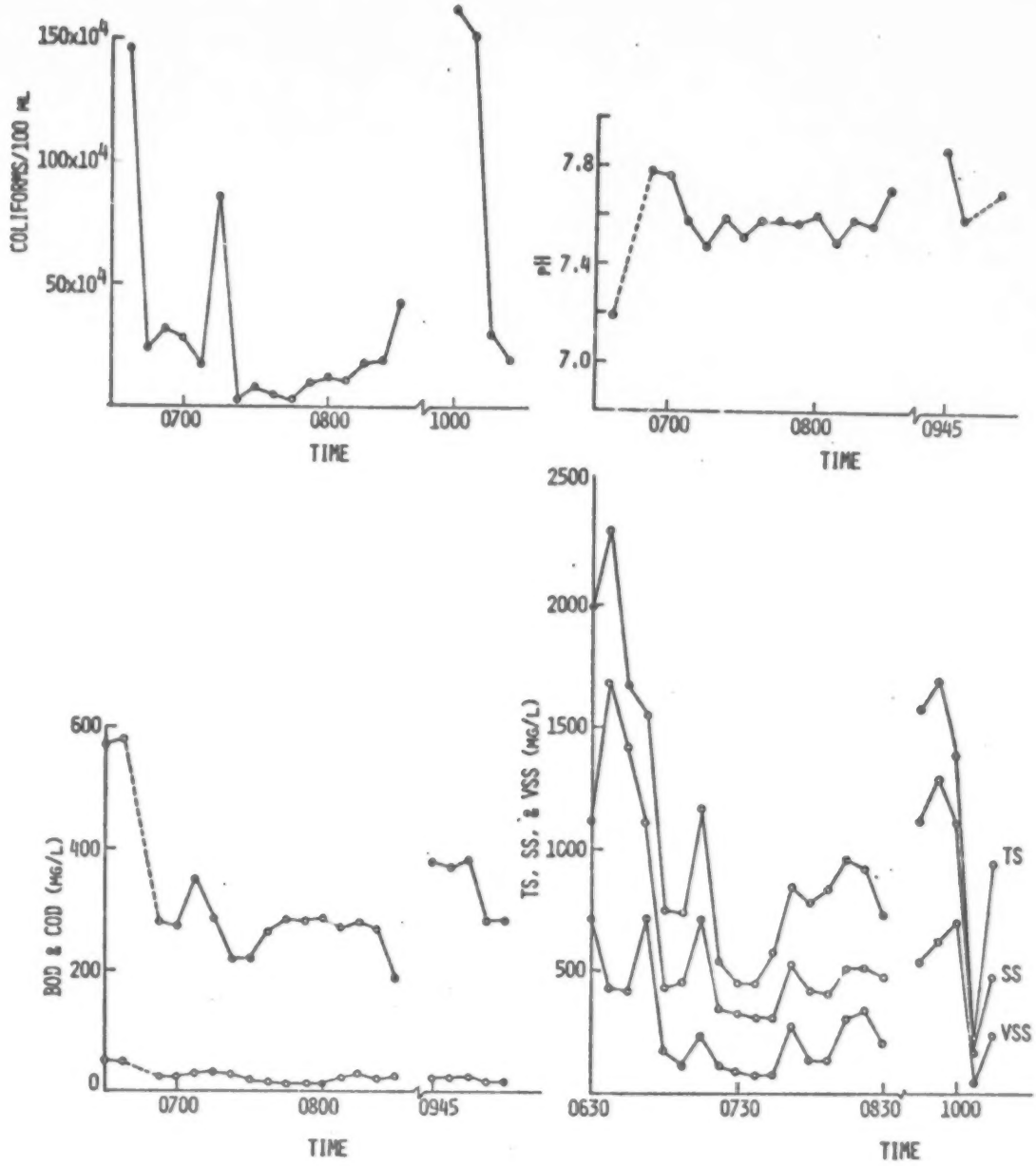


Figure 6-352 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

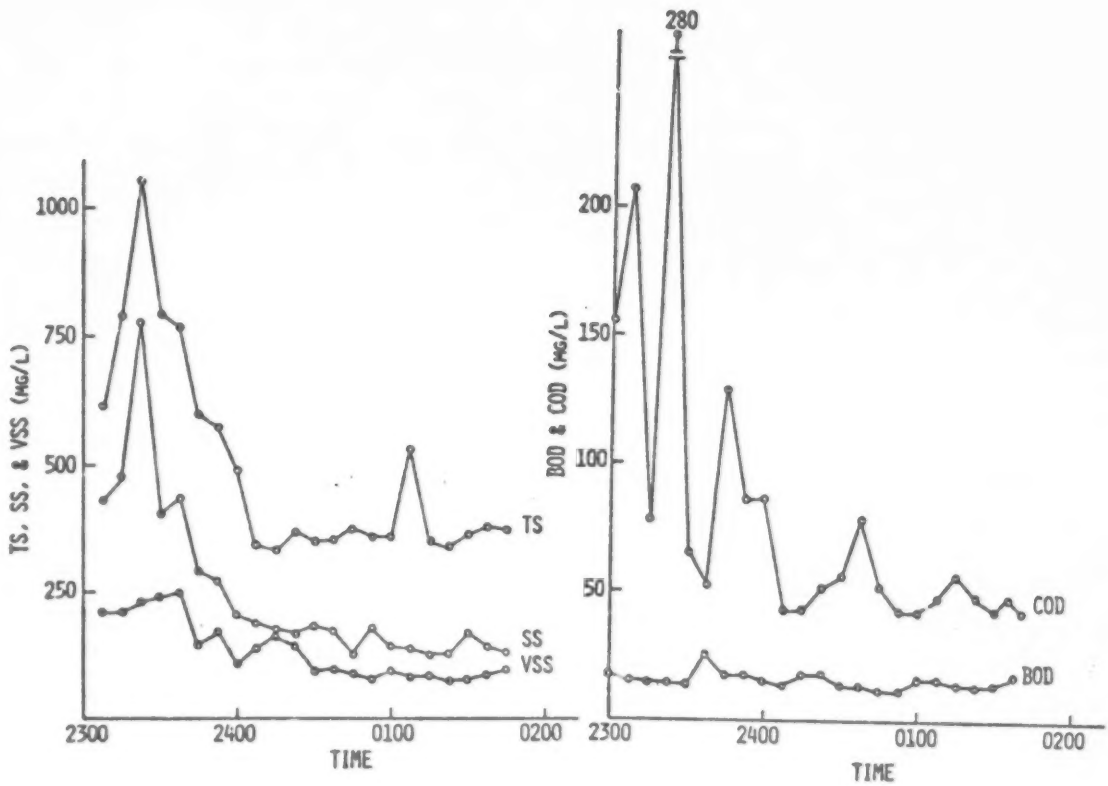


Figure 6-353 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11 & 12, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

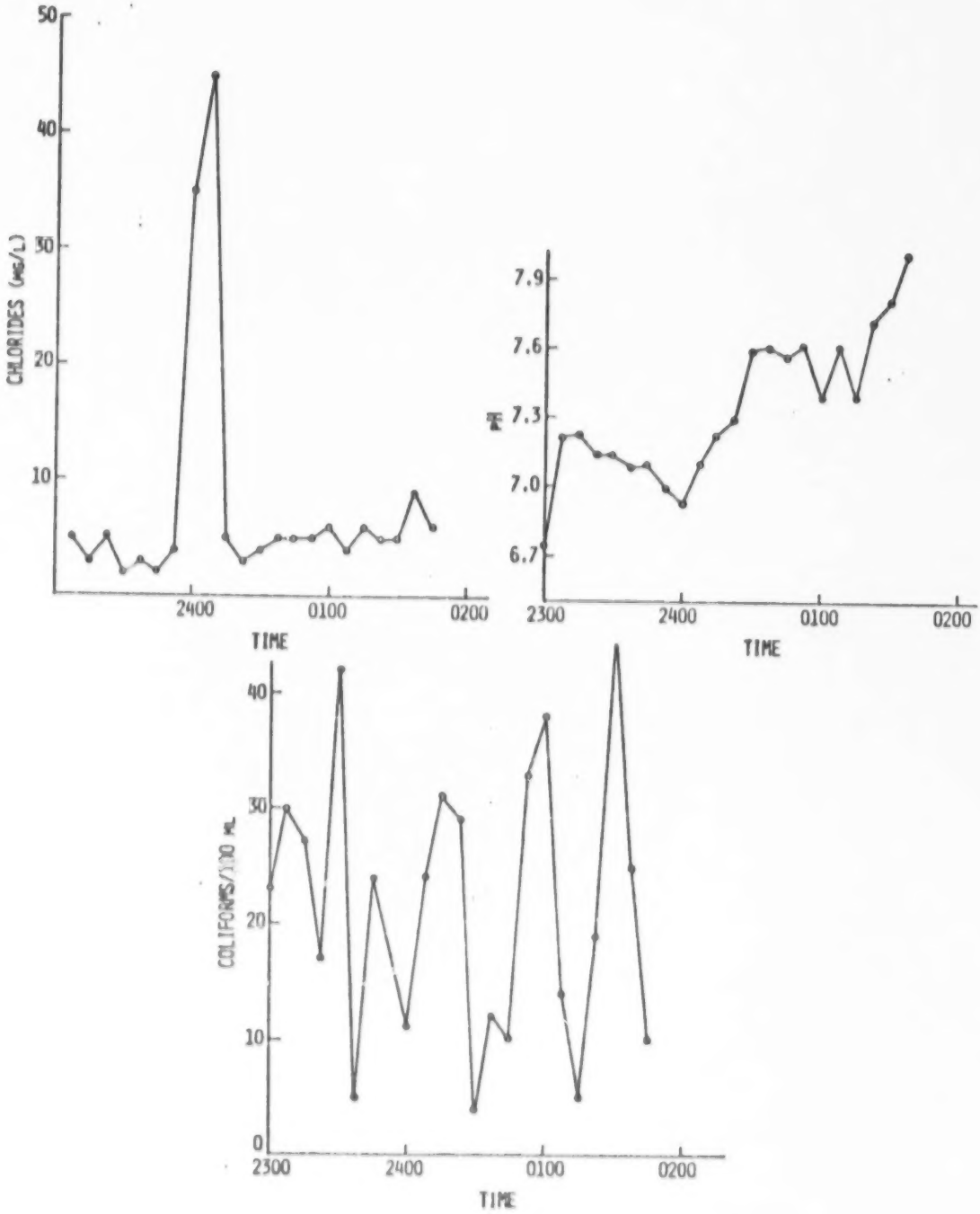


Figure 6-354 RUNOFF QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11 & 12, 1971
MONITORING STATION: OUTLET
10' x 15' SEWER

Table 6-102 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 12, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Suspended Solids	COD
	Laidlaw Gage	Woodward Gage	Ridge Gage					
0015	-	.24	2.40	21	1590	986	449	526
0022:30	-	.24	.60	238	2440	1288	727	455
0030	-	.24	.36	558	2118	1614	1120	350
0037:30	.48	.24	.24	428	1298	1011	747	204
0045	.48	.84	.24	305	632	427	289	204
0052:30	.24	.84	.24	200	448	315	200	200
0100	.36	.48	.24	114	426	250	106	196
0107:30	-	.12	.12	93	664	388	152	188
0115	-	.12	.12	81	560	289	148	168
0122:30	-	.12	.12	65	642	344	221	184
0130	-	-	.12	50	1016	734	327	204
0137:30	-	-	.12	45	340	186	90	350
0145	-	-	-	37	1188	712	352	630
0152:30	-	-	-	33	1832	1350	490	312
0200	-	-	-	29	1352	1055	670	192
0207:30	-	-	-	26	638	438	162	192
0215	-	-	-	23	1344	-	712	188
0222:30	-	-	-	21	1380	927	545	176
0230	-	-	-	20	440	286	156	150
0237:30	-	-	-	19	1502	1027	585	162
0245	-	-	-	18	1276	986	471	105
0252:30	-	-	-	16	1160	725	329	250

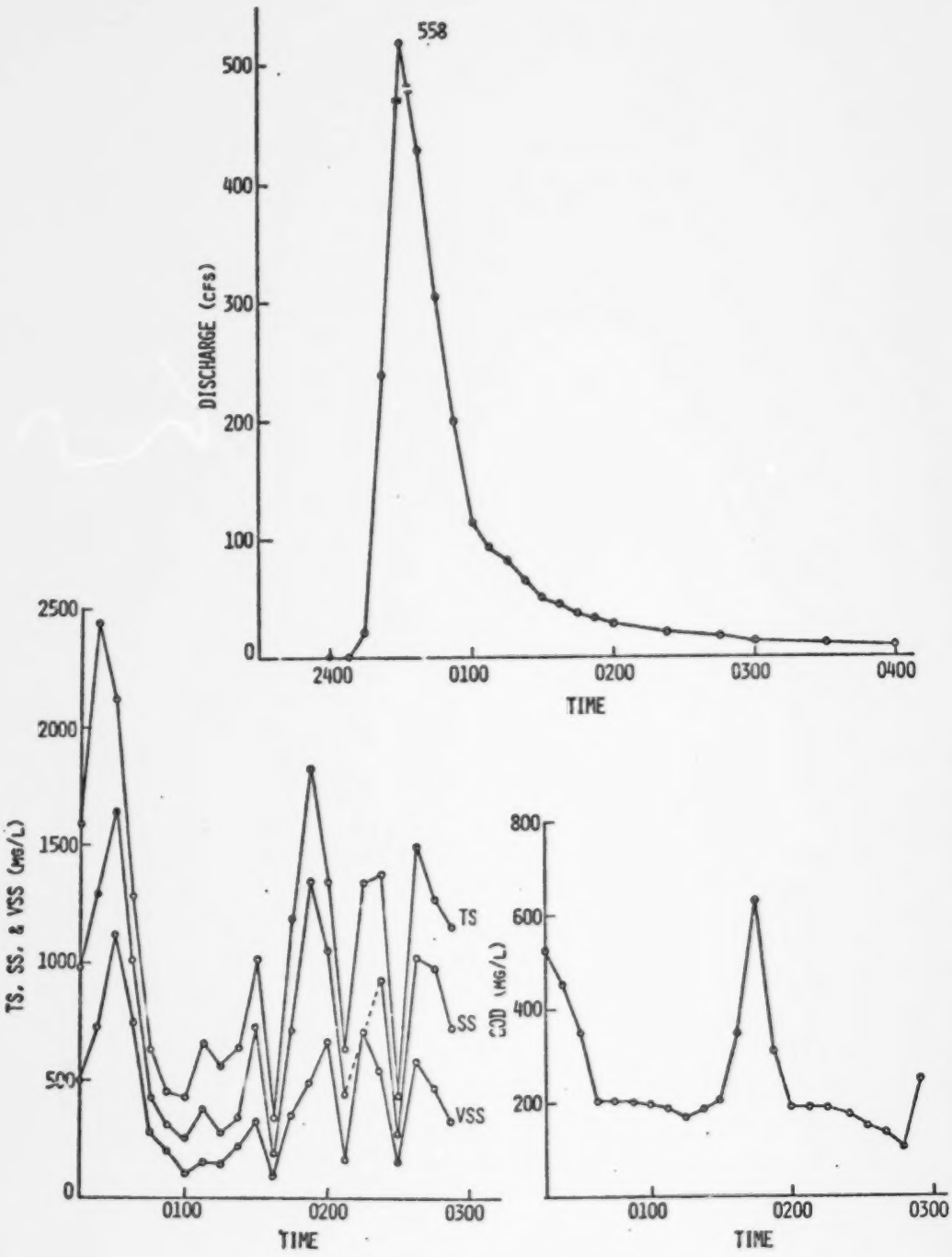


Figure 6-355 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11 & 12, 1971
MONITORING STATION: LONGVIEW
11' x 9' SEWER

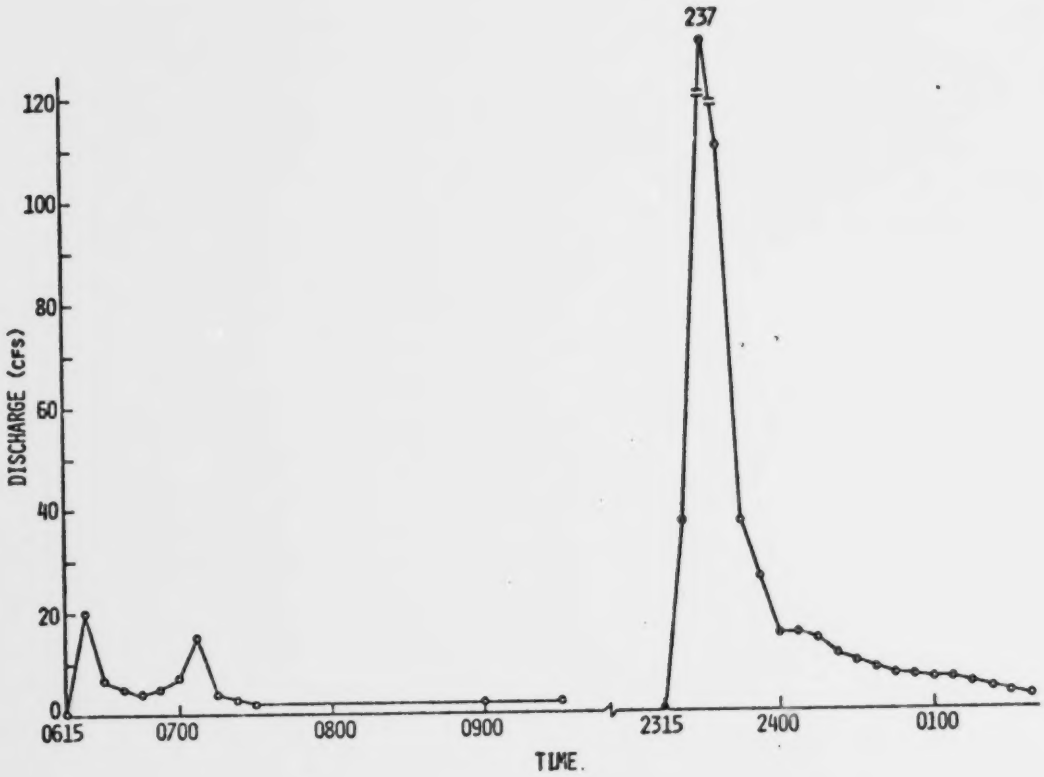


Figure 6-356 RUNOFF QUANTITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11 & 12, 1971
MONITORING STATION: BANK
78" SEWER

Table 6-103 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 12, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids	COD	pH
	Laidlaw Gage	Woodward Gage	Ridge Gage						
2352:30	-	-	-	1.5	454	327	145	89	6.90
2400	-	.24	2.40	16.5	522	404	286	79	7.01
0007:30	-	.24	2.40	24.5	358	288	271	89	7.07
0015	-	.24	2.40	87.5	234	176	121	68	7.00
0022:30	.06	.24	.60	46.0	198	124	100	36	6.81
0030	.06	.24	.36	29.5	170	106	76	36	6.70
0037:30	.048	.24	.24	18.5	152	118	78	-	6.80

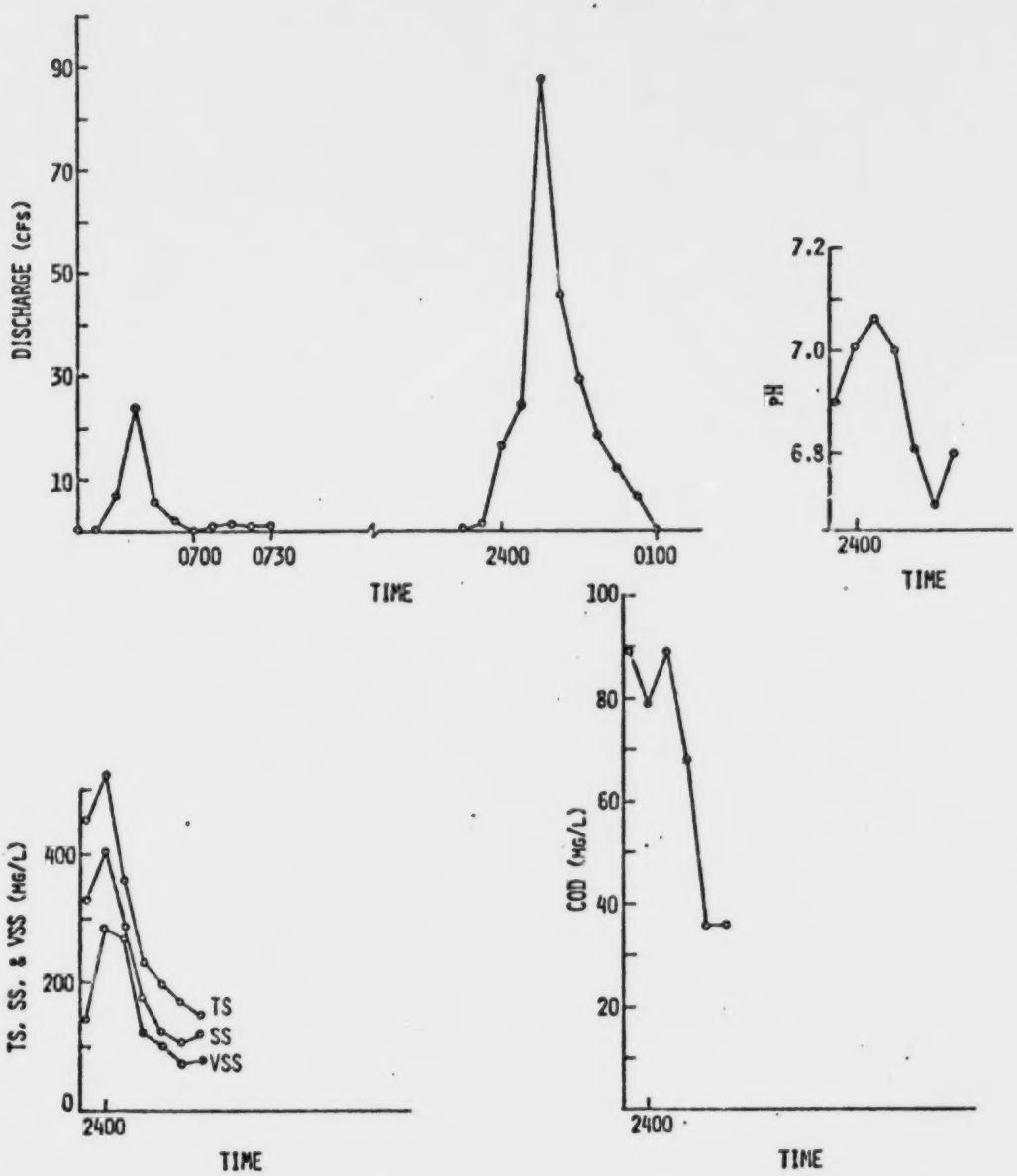


Figure 6-357 RUNOFF QUANTITY & QUALITY DATA
BLOODY RUN SEWER WATERSHED
DATE OF STORM: SEPT. 11 & 12, 1971
MONITORING STATION: BANK
54" SEWER

Table 6-104 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 20, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
					362			74.5		6.88	4	
					174			26		6.80	5	
					328			28.5		6.92	4	
					282			24.5		6.74	3	
					232			22		6.80	6	
					242			24.5		6.78	6	
					248			27		6.98	5	
					386			28.5		7.02	5.5	
					366			31.5		7.04	4	
					368			28.5		6.86	4.5	
					450			34.2		6.70	4	
					438			34.2		6.78	3	
					190			34.2		7.02	3	
					420			27		7.03	4	
					238			30.1		7.01	6	
					482			28.5		6.94	5	
					254			32.6		6.98	5	
					244			32.6		6.88	6	
					304			28.5		6.86	4	
					400			51.1		6.80	4	
					198			28.5		6.84	3	
					172			15.8		6.86	5	
					386			15.8		6.84	5	
					272			38.9		6.94	6	

Table 6-105 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 25 & 26, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0707:30	-	-	-	-								
0701:50	-	-	-	45.9								
0722:30	-	-	-	11.25								
0730:00	-	-	-	-								
0737:30	-	-	-	36.8								
0745:00	-	-	-	6.90								
0752:00	-	-	-	22.5								
0800:00	-	-	-	36.8								
0807:30	-	-	-	6.90								
				September 26, 1971								
1507:30	-	-	-	22.5								
1515:00	-	-	-	-								
1522:30	-	-	-	15.8								
1530:00	-	-	-	-								
1537:30	-	-	-	-								
1540:00	-	-	-	65.7								
1552:30	-	-	-	45.9								
1600:00	-	-	-	36.8								
1607:30	-	-	-	32.6								
1615:00	-	-	-	23.7								
1622:30	-	-	-	17.5								
1630:00	-	-	-	14.5								
1637:30	-	-	-	11.25								

Table 6-106 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: October 13, 1971 & Nov. 2, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					-						-	
					764						2	
					526						1.5	
November 2, 1971												
								400			1	

Table 6-107 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 19, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
								-			-	
								137.5			15	
								135.			3	
								130.			3	
								120.			3	
								100.			5	
								85.			4	
								87.5			2	
								82.5			4	
								77.5			7	
								72.5			5	
								72.5			4	
								100.				

Table 6-108 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 29, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
								-				
								-				
								58.3				
								59.3				
								53.6				
								32.6				
								19.8				
								15.8				
								10.1				
								11.7				
								16.7				
								16.7				
								18.2				
								20.7				
								19.8				

Table 6-109- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0030:00	0.06	0.06	0.06	16.2								
0037:30	0.09	0.15	0.12	19.2								
0045:00	0.12	0.12	0.06	19.9								
0052:30	0.12	0.09	0.12	17.5								
0100:00	0.12	0.21	0.06	14.8								
0107:30	0.12	0.12	0.09	16.2								
0115:00	0.12	0.18	0.12	17.5								
0122:30	0.12	0.18	0.12	14.5								
0130:00	0.12	0.06	0.06	10.67								
0137:30	0.09	0.09	0.09	17.5								
0145:00	0.06	0.12	0.12	17.75								
0152:30	0.06	0.15	0.12	15.83								
0200:00	0.024	0.12	0.12	15.8								
0207:30	0.048	0.09	0.06	15.8								
0215:00	0.042	0.06	0.12	15.6								
0222:30	0.03	0.0	0.15	15.5								

Table 6-110 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0230:00	0.06	0.09	0.18	15.5								
0237:30	0.06	0.06	0.06	12.1								
0245:00	0.06	0.0	0.06	10.1								
0252:30	0.06	0.12	0.06	8.8								
0300:00	0.03	0.09	0.06	11.25								
0307:30	0.24	0.06	0.024	13.3								
0315:00	0.036	0.0	0.036	14.8								
0322:30	0.036	0.0	-	14.5								
0330:00	0.066	0.0	0.0	13.3								
0337:30	0.096	0.0	0.0	12.1								
0345:00	0.080	0.0	0.0	10.1								
0352:00	0.0	0.0	0.0	8.34								

Table 6-111 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0522:30	0.12	0.33	0.12	11.25								
0530:00	0.12	0.24	0.06	15.5								
0537:30	0.12	0.06	0.12	18.5								
0545:00	0.12	0.12	0.12	22.5								
0552:30	0.12	0.18	0.12	15.5								
0600:00	0.24	0.0	0.12	12.1								
0607:30	0.12	0.18	0	13.3								
0615:00	0.0	0.24	0	13.86								
0622:30	0.0	0.0	0.0	13.3								
0630:00	0.18	0	0	12.65								
0637:00	0.20	0	0.12	12.65								
0645:00	0.12	0.0	0.24	11.25								
0652:30	0.12	0.42	0.42	11.25								
0700:00	0.12	0.24	0.072	10.66								
0707:30	0.0	0.06	0.054	19.93								
0715:00	0.0	0.12	0.036	34.0								
0722:30	0.12	0.0	0.132	18.5								
0730:00	0.12	0.12	0.12	21.4								

Table 6-112 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0737:30	0.06	0.18	0.06	23.74								
0745:00	0.06	0.0	0.12	21.4								
0752:30	0.03	0.15	0.12	15.47								
0700:00	0.0	0.06	0.12	12.10								
0807:30	0.12	0.06	0.024	13.3								
0815:00	0.0	0.12	0.024	15.83								
0822:30	0.0	0.06	0.024	12.65								
0830:00	0.12	0.0	0.024	12.10								
0837:30	0.12	0.06	0.024	10.13								
0845:00	0.0	0.24	0.024	9.58								
0852:30	0.0	0.03	0.042	12.65								
0900:00	0.06	0.0	0.06	12.10								
0907:30	0.06	0.0	0.072	11.25								
0915:00	0.0	0.0	0.036	9.33								
0922:30	0	0.03	-	7.85								

Table 6-113 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0607:30	0.12	-	0.24	9.33								
0615:00	0.18	-	0.24	11.8								
0622:30	0.18	0.18	0.24	10.13								
0630:00	0.12	0.24	0.24	8.80								
0637:30	-	-	0.036	9.93								
0645:00	-	-	0.048	9.93								
0652:30	-	0.06	0.06	11.25								
0700:00	-	0.12	0.06	15.47								
0707:30	-	0.03	0.06	19.2								
0715:00	-	0.18	0.06	19.93								
0722:30	-	0.18	0.06	12.10								
0730:00	-	-	-	12.10								
0737:30	-	-	-	6.90								
0745:00	-	-	-	6.90								
1115:00	-	-	-	9.33								
1122:30	-	-	-	10.66								
1130:00	-	-	0.24	8.34								
1137:30	-	0.18	0.24	6.90								

Table 6-114- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6 & December 7, 1971 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1400:00	0.12	0.06	0.12	10.13								
1407:30	0.12	0.12	0.06	9.33								
1415:00	0.024	0.06	0.12	8.34								
1422:30	0.048	0.0	0.12	7.6								
1430:00	0.0	0.12	0.0	16.2								
1437:30	-	0.09	-	12.1								
1445:00	-	0.06	-	13.3								
1452:30	-	-	-	14.5								
1500:00	-	-	-	13.86								
1507:30	-	-	-	11.25								
1515:00	-	-	-	9.33								
1522:30	-	-	-	7.6								
1530:00	-	-	-	4.63								
1537:30	-	-	-	3.09								
1545:00	-	0.24	-	2.63								
				December 7, 1971								
0137:30	0.054	-	-	14.5								
0145:00	0.072	-	-	14.5								
0152:30	0.042	0.24	0.048	13.3								
0200:00	0.06	0.06	0.048	13.3								
0207:30	0.042	0.12	0.06	9.33								
0215:00	0.036	-	0.06	6.90								
0222:30	0.06	-	0.12	6.90								

Table 6-115 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 13, 1971 & Dec. 30. MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1315:00	-	-	-	11.25								
1322:30	-	-	-	29.53								
1330:00	-	-	-	35.05								
1337:30	-	-	-	22.5								
1345:00	-	-	-	11.25								
1352:00	-	-	-	6.90								
1400:00	-	-	-	-								
				December 30, 1971								
0515:00	-	0.60	-	22.5								
0522:30	-	0.72	-	37.8								
0530:00	-	0.36	-	34.0								
0537:30	-	0.40	-	29.53								
0545:00	-	0.24	-	22.5								
0552:00	-	0.48	-	19.93								
0600:00	-	0.24	-	22.5								
0607:30	-	0.30	-	17.50								
0615:00	-	0.60	-	22.5								
0622:00	-	0.60	-	45.9								
0630:00	-	0.24	-	50.3								
0637:30	-	0.12	-	14.5								
0645:00	-	0.12	-	10.13								
0652:20	-	-	-	8.34								
0700:00	-	-	-	11.25								
0707:30	-	-	-	13.86								
0715:00	-	-	-	11.25								
0722:00	-	-	-	10.13								

Table 6-116- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 6 & April 19, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				March 6, 1972								
1200:00	-	-	-	11.0								
1207:30	-	-	-	16.2								
1215:00	-	-	-	15.47								
1222:30	-	-	-	9.33								
1230:00	-	-	-	6.90								
1237:30	-	-	-	6.90								
1245:00	-	-	-	13.3								
1252:00	-	-	-	16.2								
1300:00	-	-	-	14.5								
1307:30	-	-	-	13.3								
1315:00	-	-	-	11.0								
1322:30	-	-	-	10.13								
1330:00	-	-	-	7.60								
1707:30	-	-	-	15.47								
1715:00	-	-	-	11.0								
1722:30	-	-	-	6.90								
				April 19, 1972								
1700:00	0.12	0.24	0.24	9.33								
1707:30	0.12	0.24	0.36	6.90								
1952:30	-	-	-	11.25								
2000:00	-	-	-	16.2								
2007:30	-	-	-	11.25								
2015:00	0.12	0.0	0.12	6.90								

Table 6-117 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 20, 21 & May 1, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				April 20, 1972								
0715:00	0.24	0.36	0.24	6.9								
0722:30	0.18	0.24	0.12	7.6								
0730:00	0.6	0.12	0.12	8.34								
0737:30	0.12	0.18	0.48	7.85								
0745:00	0.12	0.24	0.60	6.90								
				April 21, 1972								
2307:30	0.12	-	-	11.25								
2315:00	0.12	-	-	18.5								
2322:30	0.12	-	-	11.25								
2330:00	0.0	-	-	6.04								
				May 1, 1972								
1430:00	-	-	-	18.0								
1437:30	-	-	-	12.1								
1445:00	-	-	-	7.6								
1452:30	-	-	-	6.04								
1500:00	-	-	-	4.07								
1507:30	-	0.30	-	9.33								
1515:00	-	-	-	11.25								
1522:30	-	-	-	10.13								
1530:00	-	-	-	8.34								
1537:30	-	-	-	6.90								

Table 6-118 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 1 & 2, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2115:00	-	0.24	-	11.25								
2122:30	-	0.03	-	12.1								
2130:00	-	-	-	14.5								
2137:30	-	-	-	11.25								
2145:00	-	-	-	7.6								
2152:30	-	-	-	6.04								
2200:00	-	-	-	3.09								
2207:30	-	0.15	-	11.25								
2215:00	-	0.24	-	14.5								
2222:30	-	0.24	-	16.2								
2230:00	-	-	-	18.5								
2237:30	-	-	-	16.2								
2245:00	-	-	-	13.3								
2252:30	-	-	-	10.13								
2300:00	-	-	-	6.90								
				May 2, 1972								
1615:00	-	-	-	7.6								
1622:30	-	-	-	8.34								
1630:00	-	-	-	7.6								
1637:30	-	-	-	6.90								
1645:00	-	-	-	5.63								
1652:30	-	-	-	6.04								
1700:00	-	-	-	6.90								
1707:30	-	-	-	7.6								

Table 6-119 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 2, 5 & 7, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				May 2, 1972								
1715:00	-	-	-	8.34								
1722:30	-	-	-	8.80								
1730:00	-	-	-	8.34								
1737:30	-	-	-	7.6								
1745:00	-	-	-	6.90								
				May 5, 1972								
2137:30	-	-	-	6.90								
2145:00	-	-	-	7.6								
2152:30	-	-	-	6.90								
2200:00	-	-	-	6.90								
				May 7, 1972								
2000:00	-	-	-	11.25								
2007:30	-	-	-	15.47								
2015:00	-	-	-	15.47								
2022:30	-	-	-	9.33								
2030:00	-	-	-	7.6								
2037:30	-	-	-	6.90								

Table 6-120 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 8 & 13, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				May 8, 1972								
0230:00	-	-	-	6.9								
0237:30	-	-	-	11.25								
0245:00	-	-	-	16.2								
0252:30	-	-	-	22.5								
0300:00	-	-	-	22.5								
0307:30	-	-	-	23.74								
0315:00	-	-	-	29.53								
0322:30	-	-	-	36.8								
				May 13, 1972								
0930:00	0.3	-	0.048	6.90								
0937:30	0.3	-	0.048	8.34								
0945:00	0.3	-	0.096	9.33								
0952:30	0.3	-	0.048	10.13								
1000:00	0.3	-	0.048	11.25								
1007:30	0.3	-	0.036	13.86								
1015:00	0.24	-	0.24	15.47								
1022:30	0.48	-	0.36	22.5								
1030:00	0.60	-	0.48	29.53								
1037:30	0.30	-	0.36	23.74								
1045:00	0.24	-	0.60	22.5								
1052:30	0.24	-	0.24	29.53								
1100:00	0.24	-	0.24	18.5								

Table 6-121 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1107:30	0.18	-	0.24	17.5								
1115:00	0.12	-	0.24	19.93								
1122:30	0.18	-	0.12	23.74								
1130:00	0.24	-	0.24	13.86								
1137:30	0.27	-	0.24	17.50								
1145:00	0.18	-	0.24	15.47								
1152:30	0.12	-	0.12	13.3								
1200:00	-	-	0.12	13.3								
1207:30	-	-	0.09	10.13								
1215:00	-	-	0.06	7.6								
1222:30	-	-	0.12	6.04								
1230:00	-	-	0.06	6.90								
1237:30	0.3	-	0.09	10.13								
1245:00	0.24	-	0.12	9.33								
1252:30	0.12	-	0.12	11.25								
1300:00	0.12	-	0.06	9.33								
1307:30	0.06	-	0.06	9.33								
1315:00	0.06	-	0.06	9.33								
1322:30	0.06	-	0.06	8.34								
1330:00	0.06	-	0.024	10.13								
1337:30	0.06	-	0.024	11.25								
1345:00	0.12	-	0.024	8.80								
1352:30	-	-	0.036	8.80								
1400:00	0.06	-	0.048	8.34								
1407:30	0.09	-	0.024	8.34								

Table 6-122 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1415:00	0.12	-	0.048	8.34								
1422:30	0.12	-	0.024	7.13								
1430:00	-	-	-	5.22								
1437:30	-	-	-	7.85								
1445:00	-	-	-	5.22								
1452:30	-	-	-	4.63								
1500:00	-	-	-	7.85								
1507:30	-	-	-	8.80								
1515:00	-	-	-	7.13								
1522:30	-	-	-	5.22								
1530:00	-	-	-	6.90								

Table 6-123 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13 & June 1, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1652:30	-	-	0.12	6.9								
1700:00	0.36	-	-	7.13								
1707:30	0.24	-	-	7.13								
1715:00	0.12	-	-	6.90								
1722:30	0.12	-	-	5.22								
1730:00	0.0	-	-	8.34								
1737:30	0.12	-	-	9.33								
1745:00	0.12	-	-	7.13								
1752:30	0.12	-	-	6.90								
				June 1, 1972								
0800:00	-	-	-	10.13								
0807:30	-	-	-	11.25								
0815:00	-	-	-	11.25								
0822:30	-	-	-	11.25								
0830:00	-	-	-	11.25								
0837:30	-	-	-	13.30								
0845:00	-	-	-	13.30								
0852:30	-	-	-	16.2								
0900:00	-	-	-	27.83								
0907:30	-	-	-	6.90								
1052:30	0.12	0.18	0.12	11.25								
1100:00	-	0.0	0.012	11.25								
1107:30	-	-	0.024	11.25								
1115:00	-	-	0.024	9.33								

Table 6-124 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 1, 15, 29 & 30, 1972 MONITORING STATION: Bank 54"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				June 1, 1972								
1122:30	-	-	0.018	6.90								
1607:30	-	-	-	63.66								
1615:00	-	-	-	-								
1622:30	-	-	-	27.83								
1630:00	-	-	-	11.25								
1637:30	-	-	-	10.66								
1645:00	-	-	-	7.6								
				June 15, 1972								
1500:00	-	-	0.12	15.47								
1507:30	-	-	0.12	11.25								
1515:00	-	-	0.12	11.25								
1527:30	-	-	0.06	6.90								
				June 29, 1972								
1745:00	-	-	6.0	16.2								
1752:30	-	-	0.6	46.5								
1800:00	-	-	0.6	16.2								
1807:30	-	-	0.6	10.13								
1815:00	-	-	0.6	9.33								
				June 30, 1972								
0145:00	-	-	-	19.2								
0152:30	-	-	-	11.25								
0200:00	-	-	-	8.34								
0345:00	-	-	-	11.25								
0352:30	-	-	-	36.8								
0400:00	-	-	-	14.5								

Table 6-125 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Sept. 12, 13 & 26, 1971 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				September 12, 1971								
2337:30	-	-	-	189.5								
2345:00	-	-	-	96.1								
2352:30	-	-	-	46.6								
2400:00	-	-	-	25.1								
				September 13, 1971								
0007:30	-	0.30	-	25.1								
0015:00	-	0.12	-	20.7								
0022:30	0.3	0.30	-	18.6								
0030:00	0.6	0.36	-	14.3								
0037:30	0.3	0.66	-	9.3								
0045:00	0.6	0.96	-	8.5								
0052:30	0.3	0.60	-	8.5								
0100:00	-	0.24	-	8.5								
0107:30	-	0.06	-	8.5								
0115:00	-	0.12	-	8.5								
0122:30	-	0.06	-	8.5								
0130:00	-	-	-	8.5								
				September 26, 1971								
0030:00	-	0.36	0.12	18.6								
0037:30	-	0.0	0.06	25.1								
0045:00	-	0.0	0.12	15.26								
0052:30	-	0.0	0.12	-								

Table 6-126 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Sept. 26 & Dec. 30, 1971 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				September 26, 1971								
0100:00	0.48	0.12	0.12	20.7								
0107:30	0.31	0.24	0.09	20.7								
0115:00	0.048	0.60	0.06	20.7								
0122:30	0.084	0.15	0.12	16.9								
0130:00	-	0.48	0.24	15.26								
				December 30, 1971								
0507:30	0.45	0.60	0.18	7.09								
0515:00	0.3	0.45	0.3	15.26								
0522:30	0.3	0.60	0.36	18.6								
0530:00	0.3	0.72	0.06	15.26								
0537:30	0.3	0.36	0.33	20.7								
0545:00	0.24	0.40	0.24	23.2								
0552:30	0.3	0.48	0.18	30.3								
0600:00	0.96	0.24	0.60	25.1								
0607:30	0.24	0.30	0.30	15.26								
0615:00	0.24	0.60	0.12	25.1								
0622:30	0.54	0.60	0.24	37.6								
0630:00	0.0	0.24	0.12	27.8								
0637:30	-	0.12	0.18	11.53								
0645:00	-	0.12	0.12	9.9								
0652:30	-	0.0	0.15	8.51								
0700:00	-	-	0.18	8.51								
0707:30	0.24	-	0.15	25.1								
0715:00	0.12	-	0.0	34.8								

Table 6-127 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Dec. 30,'71 & Jan. 2 & 19, '72 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				December 30, 1971								
0722:30	0.18	0.06	0.27	8.51								
0730:00	0.12	0.12	0.12	25.1								
0737:30	0.072	0.12	0.12	34.8								
0745:00	0.024	0.36	0.12	25.1								
0752:30	0.06	0.12	0.06	18.6								
0800:00	-	0.12	-	20.7								
0807:30	0.30	0.12	-	25.1								
0815:00	0.24	0.24	-	16.9								
0822:30	0.18	0.18	-	9.9								
0830:00	-	0.12	-	40.72								
0837:30	-	0.30	-	40.72								
0845:00	-	0.12	-	20.7								
0852:30	-	0.06	-	16.9								
0900:00	-	0.0	-	15.26								
				January 2, 1972								
0200:00	-	-	0.06	7.09								
0207:30	-	-	0.06	11.53								
0215:00	-	-	0.06	9.9								
0222:30	-	-	0.12	7.09								
				January 19, 1972								
1815:00	-	-	-	15.26								
1822:30	-	-	-	28.9								

Table 6-128 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Jan. 20 & Mar. 18, '72 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				January 20, 1972								
1507:30	-	-	-	7.09								
1515:00	-	-	-	16.9								
1522:30	-	-	-	7.09								
				March 18, 1972								
1345:00	-	-	-	52.65								
1352:30	-	-	-	23.2								
1400:00	-	-	-	15.26								
1407:30	-	-	-	15.26								
1415:00	-	-	-	15.26								
1422:30	-	-	-	15.26								
1430:00	-	-	-	28.1								
1437:30	-	-	-	32.5								
1445:00	-	-	-	20.7								
1452:30	-	-	-	16.9								
1500:00	-	-	-	20.7								
1522:30	-	-	-	23.2								
1530:00	-	-	-	25.1								
1537:30	-	-	-	18.6								
1545:00	-	-	-	16.9								
1552:30	-	-	-	15.26								
1600:00	-	-	-	13.40								
1607:30	-	-	-	11.53								
1615:00	-	-	-	7.09								
1622:30	-	-	-	7.09								
[illegible]:00	-		-	11.53								
[illegible]:30	-		-	15.26								

Table 6-129- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 18, 1972 (Cont'd.) MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1630:00	-	-	-	11.53								
1637:30	-	-	-	15.26								
1665:00	-	-	-	11.53								
1652:30	-	-	-	9.9								
1700:00	-	-	-	9.9								
1707:30	-	-	-	11.53								
1715:00	-	-	-	15.26								
1727:30	-	-	-	18.6								
1730:00	-	-	-	13.4								
1737:30	-	-	-	11.53								
1745:00	-	-	-	9.9								
1752:30	-	-	-	9.9								
1800:00	-	-	-	11.53								
1807:30	-	-	-	13.40								
1815:00	-	-	-	15.26								
1822:30	-	-	-	15.26								
1830:00	-	-	-	15.26								
1837:30	-	-	-	15.26								
1845:00	-	-	-	15.26								
1852:30	-	-	-	18.6								
1900:00	-	-	-	15.26								
1907:30	-	-	-	13.40								
1915:00	-	-	-	11.53								
1922:30	-	-	-	15.26								
1930:00	-	-	-	16.9								
1937:30	-	-	-	13.4								

Table 6-130 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 18, 1972 (Cont'd.) MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1945:00	-	-	-	12.23								
1952:30	-	-	-	12.23								
2000:00	-	-	-	15.26								
2007:30	-	-	-	15.26								
2015:00	-	-	-	15.26								
2022:30	-	-	-	12.23								
2030:00	-	-	-	15.26								
2037:30	-	-	-	25.1								
2045:00	-	-	-	43.65								
2052:30	-	-	-	23.2								
2100:00	-	-	-	18.6								
2107:30	-	-	-	15.26								
2115:00	-	-	-	13.40								
2122:30	-	-	-	11.53								
2130:00	-	-	-	9.9								
2137:30	-	-	-	9.9								
2145:00	-	-	-	25.1								
2152:30	-	-	-	15.26								
2200:00	-	-	-	9.9								
2207:30	-	-	-	5.0								
2215:00	-	-	-	30.3								
2222:30	-	-	-	23.2								
2230:00	-	-	-	18.6								
2237:30	-	-	-	11.53								
2245:00	-	-	-	5.0								
2252:30	-	-	-	8.51								

Table6-131 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 18 & 19, 1972 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2300 00	-	-	-	11.53								
2307:30	-	-	-	8.51								
2315:00	-	-	-	7.09								
				March 19, 1972								
0445:00	-	-	-	7.09								
0452:30	-	-	-	9.9								
0500:00	-	-	-	8.51								
0507:30	-	-	-	7.09								
0515:00	-	-	-	2.2								
0527:30	-	-	-	20.7								
0530:00	-	-	-	27.8								
0537:30	-	-	-	27.8								
0545:00	-	-	-	27.8								
0552:30	-	-	-	27.8								
0600:00	-	-	-	27.8								
0607:30	-	-	-	25.1								
0615:00	-	-	-	16.9								
0622:30	-	-	-	15.26								
0630:00	-	-	-	13.4								
0637:30	-	-	-	9.9								
0645:00	-	-	-	8.51								
0652:30	-	-	-	8.51								
0700:00	-	-	-	11.53								
0707:30	-	-	-	11.53								
0715:00	-	-	-	11.53								

Table 6-132 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 19, 29 & Apr. 4,'72. MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				March 19, 1972								
0722:30	-	-	-	11.53								
0730:00	-	-	-	11.53								
0737:30	-	-	-	11.53								
0745:00	- -	-	-	11.53								
0752:30	-	-	-	15.26								
0800:00	-	-	-	16.9								
0807:30	-	-	-	16.9								
0815:00	-	-	-	16.9								
0822:30	-	-	-	18.6								
0830:00	-	-	-	16.9								
0837:30	-	-	-	15.26								
0845:00	-	-	-	11.53								
0852:30	-	-	-	9.9								
9000:00	-	-	-	8.51								
0907:30	-	-	-	8.51								
				March 29, 1972								
1.	-	-	-	-					449		5	
2.	-	-	-	-					682		5	
3.	-	-	-	-					248		5	
				April 4, 1972								
1852:30	-	-	-	15.26								
1900:00	-	-	-	11.53								
1907:30	-	-	-	7.09								

Table 6-133 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 4, 1972 (Cont'd.) MONITORING STATION: Bank 78

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1915:00	-	-	-	6.08								
1922:30	-	-	-	15.26								
1930:00	-	-	-	20.7								
1937:30	-	-	-	15.26								
1945:00	-	-	-	13.40								
1952:30	-	-	-	8.51								
2000:00	-	-	-	8.51								
2007:30	-	-	-	8.51								
2015:00	-	-	-	8.51								
2022:30	-	-	-	8.51								
2030:00	-	-	-	8.51								
2037:30	-	-	-	9.9								
2045:00	-	-	-	10.8								
2052:30	-	-	-	9.9								
2100:00	-	-	-	9.9								
2107:30	-	-	-	9.9								
2300:00	-	-	-	32.5								
2307:30	-	-	-	27.8								
2315:00	-	-	-	27.8								
2322:30	-	-	-	23.2								
2330:00	-	-	-	20.7								
2337:30	-	-	-	16.90								
2345:00	-	-	-	13.40								
2352:30	-	-	-	11.53								
2400:00	-	-	-	9.9								

Table 6-134 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Apr. 19, 20 & 21, 1972 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2000:00	0.24	0.24	0.12	18.6								
2007:30	0.18	0.12	0.12	18.6								
2015:00	-	-	0.12	15.26								
2022:30	-	-	0.12	15.26								
2030:00	-	-	-	9.9								
2037:30	-	-	-	7.09								
2045:00	-	-	-	6.08								
				April 20, 1972								
0715:00	0.24	0.36	-	8.51								
0722:30	0.06	0.24	-	9.9								
0730:00	0.6	0.12	-	15.26								
0737:30	0.12	0.18	-	15.26								
0745:00	0.12	0.24	-	15.26								
0752:30	0.12	0.18	-	15.26								
0800:00	-	-	-	15.26								
0807:30	-	-	-	11.53								
0815:00	-	-	-	11.53								
0822:30	-	-	-	9.9								
0830:00	-	-	-	8.51								
				April 21, 1972								
1100:00	-	-	0.06	9.04								
1107:30	-	-	0.06	8.51								
1115:00	-	-	0.06	9.9								
1122:30	0.30	-	0.06	9.9								

Table 6-135 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 21, 1972 (Cont'd.) MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1130:00	0.06	-	0.06	8.51								
1137:30	0.054	-	0.12	9.04								
1145:00	0.048	-	0.06	7.09								
1152:30	0.024	-	0.06	6.58								
1200:00	0.024	-	0.06	6.08								
1207:30	0.096	-	0.06	6.58								
1215:00	0.12	-	0.06	7.09								
1223:30	0.054	-	0.06	9.04								
1230:00	0.048	-	0.06	9.3								
1237:30	0.024	-	0.024	9.3								
1245:00	-	-	0.024	9.3								
1252:30	0.018	-	0.024	9.9								
1300:00	0.12	-	0.06	7.09								
1307:30	0.12	-	0.06	7.09								
1315:00	-	-	0.06	15.26								
1322:30	-	-	0.06	11.53								
1330:00	-	-	0.06	8.51								
1337:30	0.12	-	0.06	11.53								
1345:00	0.24	-	0.06	9.9								
1352:30	0.12	-	0.06	9.3								
1400:00	-	-	0.06	7.09								
2207:30	-	-	-	32.5								
2215:00	-	-	-	15.26								
2222:30	-	-	-	18.6								
2230:00	0.6	-	-	8.51								
2237:30	0.3	-	-	7.09								

Table 6-136 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 21 & May 10, 1972 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2245:00	-	-	-	8.51								
2252:30	-	-	-	7.09								
2300:00	-	-	-	6.08								
				May 10, 1972								
0222:30	-	0.06	0.24	16.9								
0230:00	0.3	0.18	0.30	20.7								
0237:30	0.45	0.45	0.45	7.09								
0245:00	0.3	0.24	0.60	7.09								
0252:30	0.15	0.60	0.60	15.26								
0300:00	0.3	0.36	0.24	15.26								
0307:30	0.75	0.60	0.18	20.7								
0315:00	0.6	0.60	0.24	15.26								
0322:30	0.6	0.90	0.18	7.09								
0330:00	-	0.0	0.24	23.2								
0337:30	-	0.27	0.24	16.9								
0345:00	0.6	0.06	0.24	9.9								
0352:30	0.30	0.48	0.42	8.51								
0500:00	-	-	0.36	20.7								
0507:30	0.48	-	0.60	18.6								
0515:00	0.24	0.48	0.12	16.9								
0522:30	0.30	0.60	0.42	15.26								
0530:00	0.60	0.48	0.12	12.23								
0537:30	0.30	0.36	0.12	13.40								
0545:00	0.24	0.36	0.12	13.40								

Table6-137 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 (Cont'd.) MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0552:30	0.18	0.12	0.18	15.26								
0600:00	0.12	0.24	0.24	18.6								
0607:30	0.30	0.18	0.24	15.26								
0615:00	0.12	0.36	0.24	13.4								
0622:30	0.12	0.42	0.12	9.9								
0730:00	-	0.12	0.6	30.31								
0737:30	-	0.12	0.6	27.8								
0745:00	0.36	0.24	0.6	25.1								
0752:30	0.42	0.24	0.6	23.2								
0800:00	0.48	0.12	0.12	18.6								
0807:30	0.09	0.42	0.12	15.26								
0815:00	0.06	0.36	0.12	14.33								
0822:30	0.06	0.30	0.06	15.26								
0830:00	-	0.24	0.06	16.9								
0837:30	-	0.0	0.09	25.1								
0845:00	0.36	0.12	0.12	32.5								
0852:30	0.18	0.06	0.12	37.6								
0900:00	0.24	0.24	0.60	49.9								
0907:30	0.18	0.18	0.60	52.65								
0915:00	0.24	0.12	0.30	56.35								
0922:30	0.18	0.12	0.15	56.35								
0930:00	0.12	0.24	0.06	46.62								
0937:30	0.12	0.60	0.09	34.8								
0945:00	0.6	0.36	0.12	34.8								
0952:30	0.3	0.42	0.12	30.3								
1000:00	0.12	0.0	0.12	30.3								

Table 6-138 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 (Cont'd.) MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1007:30	0.12	0.30	0.12	27.8								
1015:00	0.06	0.24	0.06	30.3								
1022:30	0.09	0.18	0.09	49.9								
1030:00	0.06	0.0	0.6	37.6								
1037:30	0.27	0.12	0.6	37.6								
1045:00	0.6	0.30	0.24	32.5								
1052:30	0.12	0.24	0.18	46.6								
1100:00	0.36	0.24	0.6	40.7								
1107:30	0.24	0.30	0.24	40.7								
1115:00	0.24	0.36	0.12	49.9								
1122:30	0.24	0.30	0.6	43.6								
1130:00	0.30	0.60	0.12	52.6								
1137:30	0.30	0.40	1.24	46.6								
1145:00	0.30	0.12	0.36	37.6								
1152:30	0.60	0.60	0.24	34.8								
1200:00	0.60	0.60	0.24	30.3								
1207:30	0.36	0.60	0.18	32.5								
1215:00	0.12	0.0	0.24	37.6								
1222:30	0.12	0.18	0.06	56.35								
1230:00	0.036	0.12	0.12	56.35								
1237:30	0.042	0.0	0.12	46.62								
1245:00	0.6	0.36	0.06	34.8								
1252:30	0.42	0.72	0.06	32.5								
1300:00	0.24	0.24	0.06	30.3								
1307:30	0.21	0.36	0.12	27.8								
1315:00	0.30	0.12	0.12	25.1								

Table 6-139 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 (Cont'd.) MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1322:30	-	0.12	0.12	23.2								
1330:00	0.024	0.12	-	20.7								
1337:30	0.024	0.06	-	20.7								
1345:00	0.024	0.12	-	18.6								
1352:30	0.042	0.06	-	16.9								
1400:00	0.06	0.0	-	16.9								
1407:30	0.06	-	-	16.9								
1415:00	0.06	-	-	16.9								
1422:30	0.09	-	-	16.1								
1430:00	0.0	-	-	15.21								
1437:30	-	-	-	14.33								
1445:00	-	-	-	11.53								
1452:30	-	-	-	11.53								
1500:00	-	-	-	11.53								
1507:30	-	-	-	11.53								
1515:00	-	-	-	9.9								
1522:30	-	-	-	9.9								
1530:00	-	-	-	9.9								
1537:30	-	-	-	8.51								
1545:00	-	-	-	8.51								
1552:30	-	-	-	8.51								
1600:00	-	0.24	-	8.51								
1607:30	-	0.03	-	8.04								
1615:00	-	-	-	8.04								
1622:30	-	-	-	8.04								

Table 6-140 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 14, 1972 MONITORING STATION: Bank 78"

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1637:30	-	-	-	15.26								
1645:00	-	-	-	25.1								
1652:30	-	-	-	8.04								

Table 6-141 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 20, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1					-			-		-	-	
2					-			-		-	-	
3					-			-		-	-	
4					-			-		-	-	
5					-			-		-	-	
6					-			-		-	-	
7					2006			300		-	-	
8					2472			280		6.8	18	
9					1880			300		6.9	23	
10					1568			410		7.18	20	
11					1162			380		7.14	9	
12					-			-		-	-	
13					784			390		-	-	
14					862			380		-	-	
15					700			-		-	-	
16					-			-		-	-	
17					826			-		-	-	
18					682			-		-	-	
19					729			-		-	-	
20					-			-		-	-	
21					836			360		7.08	10	
22					1130			540		7.02	16	
23					1176			570		7.04	18	
24					1008			500		7.2	18	

Table 6-142 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 26, 1971 & Nov. 16 MONITORING STATION: Longview 11 x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0122:30	0.084	0.15	0.12	319.3								
0130:00	-	0.48	0.24	467.9								
0137:30	-	0.18	0.9	170.0								
0145:00	-	0.84	0.06	92.6								
0152:30	-	0.9	0.68	280.0								
0200:00	0.12	0.6	0.6	384.0								
0207:30	0.18	0.39	0.6	293.0								
0215:00	1.2	0.60	0.6	187.0								
0222:30	1.2	0.60	0.9	87.0								
0230:00	0.0	-	-	50.5								
0237:30	0.6	-	-	46.0								
0245:00	0.6	-	-	39.2								
				November 16, 1971								
0322:30	-	-	-	192.0								
0345:00	-	-	-	170.4								
0352:30	-	-	-	65.25								
0400:00	-	-	-	50.5								

Table 6-143 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Dec. 14 & , 1971 MONITORING STATION: Longview 11'x9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				December 14, 1971								
0922:30	-	-	-	88.25								
0930:00	-	-	-	222.6								
0937:30	-	-	-	170.5								
0945:00	-	-	-	149.4								
0952:30	-	-	-	142.6								
1000:00	-	-	-	104.45								
1007:30	-	-	-	65.25								
1015:00	-	-	-	59.0								
1022:30	-	-	-	50.5								
				December , 1971								
0007:30	-	-	-	161.55								
0015:00	-	-	-	191.0								
0022:30	-	-	-	132.75								
0030:00	-	-	-	98.1								
0037:30	-	-	-	88.25								
0045:00	-	-	-	74.9								
0052:30	-	-	-	65.25								
0100:00	-	-	-	60.2								
0107:30	-	-	-	59.0								
0115:00	-	-	-	56.6								
0122:30	-	-	-	50.0								

Table 6-144 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December , 1971 & Apr. 7, '72 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				December , 1971								
0515:00	-	-	-	59.0								
0522:30	-	-	-	104.45								
0530:00	-	-	-	98.1								
0537:30	-	-	-	59.0								
0545:00	-	-	-	65.25								
0552:30	-	-	-	65.25								
0600:00	-	-	-	74.9								
0607:30	-	-	-	88.25								
0615:00	-	-	-	104.45								
0622:30	-	-	-	149.45								
0630:00	-	-	-	88.25								
0637:30	-	-	-	59.0								
				April 7, 1972								
0407:30	-	-	0.3	88.25	-			-	-	-	-	
0415:00	-	0.6	0.6	223.0	-			-	-	-	-	
0422:30	-	0.9	1.2	293.0	-			-	-	-	-	
0430:00	-	0.6	1.2	898.0	-			-	-	-	-	
0437:30	-	0.6	0.6	181.0	-			-	-	-	-	
0445:00	-	-	1.2	104.45	-			-	-	-	-	
0452:30	-	-	0.3	98.1	-			-	-	-	-	
0500:00	-	-	-	74.9	-			-	-	-	-	
0507:30	-	-	-	59.0	-			-	-	-	-	

Table 6-145 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0515:00	-	-	-	55.3	4792			198	423	6.94	24	
0522:30	-	-	-	50.55	-			-	-	-	-	
0530:00	-	0.12	-	48.0	-			-	-	-	-	
0537:30	-	0.09	-	46.0	6192			226	-	6.98	26	
0545:00	-	0.06	-	48.0	-			-	-	-	-	
0552:30	-	0.42	0.12	50.5	-			-	-	-	-	
0600:00	-	0.24	0.36	88.25	-			-	-	-	-	
0607:30	-	0.12	0.30	74.9	-			-	-	-	-	
0615:00	-	0.12	-	68.25	6216			226	229	7.12	18	
0622:30	-	0.06	-	59.0	6486			221	160	7.26	14	
0630:00	-	-	-	50.5	6094			209	219	7.08	17	
-	-	-	-	-	6518			154	243	7.10	19	
-	-	-	-	-	7060			132	209	7.08	21	
-	-	-	-	-	7998			124	175	7.12	20	
-	-	-	-	-	4938			115	155	7.10	18	
1107:30	-	0.24	-	59.0								
1115:00	-	0.24	0.24	69.25								
1122:30	-	0.18	0.36	81.4								
1130:00	-	0.0	0.24	104.45								
1137:30	-	0.18	0.42	113.6								
1145:00	-	0.24	0.24	104.45								
1152:30	-	0.54	0.24	81.4								
1200:00	-	0.12	0.48	65.3								
1207:30	-	0.15	-	59.0								
1337:30	-	0.06	0.27	65.25								
1345:00	-	0.0	0.30	98.1								

Table 6-146 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 (Cont'd.) MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1352:30	-	0.30	0.27	88.25								
1400:00	-	0.36	0.12	74.9								
1407:30	-	0.12	0.12	70.5								
1415:00	-	-	0.24	60.2								
1422:30	-	-	-	65.25								
1430:00	-	-	-	88.25								
1437:30	-	-	0.24	104.45								
1445:00	-	0.12	0.24	98.1								
1452:30	-	0.12	0.12	98.1								
1500:00	-	0.12	0.06	132.75								
1507:30	-	0.06	0.06	170.2								
1515:00	-	0.0	0.06	123.0								
1522:30	-	0.09	0.06	113.6								
1530:00	-	0.06	0.06	104.45								
1537:30	-	0.06	0.06	98.1								
1545:00	-	0.12	0.06	92.2								
1552:30	-	0.12	0.06	88.25								
1600:00	-	0.0	0.048	84.2								
1607:30	-	-	0.048	74.9								
1615:00	-	-	0.048	70.5								
1622:30	-	-	0.054	65.25								
1630:00	-	-	0.06	65.25								
1637:30	-	-	0.06	60.2								
1645:00	-	-	-	59.0								

Table 6-147 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 13, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1					-				-	-	-	
2					-				-	-	-	
3					-				-	-	-	
4					-				-	-	-	
5					-				-	-	-	
6					5108			87	1140	7.42	32	
7					6472			84	1085	7.38	30	
8					-			-	-	-	-	
9					-			-	-	-	-	
10					6264			98	1066	7.26	28	
11					6762			105	628	7.36	24	
12					6650			88	419	7.2	18	
13					7186			88	533	6.94	17	
14					7776			80	342	6.84	19	
15					8336			72	514	7.12	15	
16					4892			72	1085	7.08	20	
17					6428			61	456	7.24	20	
18					5540			61	342	7.48	18	
19					5960			61	1047	7.50	17	
20					5398			53	1085	7.32	17	
21					6086			47	704	7.24	16	
22					6034			50	685	7.18	16	
23					6508			45	609	7.24	15	
24					6114			51	456	7.20	12	

Table 6-148 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 15, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1.					4906			106	258	7.31	27	
2.					6168			106	264	6.85	32	
3.					6202			106	269	7.46	29	
4.					6470			113	274	7.48	19	
5.					6242			124	294	7.02	23	
6.					6682			134	328	6.94	26	
7.					7146			132	348	6.83	18	
8.					8072			141	338	7.42	17	
9.					4968			144	333	7.68	24	
10.					6272			150	367	7.76	23	
11.					5876			157	326	7.32	23	
12.					6038			153	331	6.98	20	
13.					4996			150	345	6.48	19	
14.					6320			148	360	7.02	17	
15.					6174			130	379	7.42	18	
16.					6266			130	404	7.64	22	
17.					-			123	-	-	-	
18.					6602			122	423	7.32	21	
19.					7094			113	370	7.36	20	
20.					7792			111	340	7.40	22	
21.					4282			108	292	7.48	20	
22.					5966			105	272	7.26	20	
23.					5032			102	253	7.24	19	
24.					5522			99	244	7.32	19	

Table 6-149 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 20, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1.					-				-	-	-	
2.					-				-	-	-	
3.					-				-	-	-	
4.					-				-	-	-	
5.					-				-	-	-	
6.					-				-	-	-	
7.					2980			86	895	7.48	38	
8.					3648			86	590	7.64	42	
9.					5836			98	533	7.26	26	
10.					4504			105	667	7.10	24	
11.					5398			92	742	7.02	32	
12.					6398			83	648	6.84	28	
13.					6084			72	609	6.76	30	
14.					-			-	-	-	-	
15.					7340			61	514	6.98	30	
16.					4224			61	742	6.54	29	
17.					5166			53	762	6.50	27	
18.					4932			53	704	6.98	28	
19.					5268			60	762	7.12	26	
20.					2378			50.5	990	7.26	25	
21.					2762			43	723	7.38	25	
22.					3088			35.5	590	7.42	23	
23.					1858			62	362	7.54	18	
24.					2786			26	343	7.38	16	

Table6-150 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 24, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1.					-			-	-	-	-	
2.					4192			146	379	7.64	36	
3.					4572			156	365	7.58	35	
4.					4712			146	369	7.32	37	
5.					4710			151	384	7.48	29	
6.					5602			158	388	7.06	27	
7.					4486			164	403	6.98	25	
8.					5880			159	398	6.84	28	
9.					5302			156	379	7.24	19	
10.					3038			148	365	7.08	16	
11.					7046			136	355	7.12	13	
12.					3770			124	346	7.32	16	
13.					4066			114	364	7.40	15	
14.					3424			113	322	7.20	12	
15.					3404			96	303	7.32	10	
16.					3112			92	283	7.22	11	
17.					2196			95	288	7.16	16	
18.					3336			92	269	7.02	14	
19.					3028			78	250	7.08	12	
20.					3422			75	226	7.16	10	
21.					3088			78	207	7.12	12	
22.					2468			72	178	6.98	11	
23.					2820			69	154	7.02	10	
24.					2162			69	120	7.04	10	

Table 6-151 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0252:30	0.15	0.60	0.60	88.25				108.7				
0300:00	0.3	0.36	0.24	132.75				107.1				
0307:30	0.75	0.60	0.24	161.55				118.4				
0315:00	0.6	0.60	0.12	293.0				120.3				
0322:30	0.6	0.90	0.24	234.7				116.8				
0330:00	-	0.0	0.12	215.0				131.5				
0337:30	-	0.27	0.24	123.0				120.3				
0345:00	0.6	0.06	0.24	116.6				106.5				
0352:30	0.3	0.48	0.42	113.6				102.5				
0400:00	0.24	0.24	0.24	142.6				95.9				
0407:30	0.18	0.27	0.18	104.5				89.6				
0415:00	0.12	0.06	0.06	101.5				84.6				
0422:30	0.12	0.18	0.06	98.1				81.5				
0430:00	0.12	0.24	0.06	84.2				73.1				
0437:30	0.06	-	-	81.36				71.1				
0445:00	-	-	-	74.9				63.4				
0452:30	-	-	-	65.25				65.9				
0500:00	-	-	0.36	59.0				61.1				
0507:30	0.48	-	0.60	50.5				65.8				
0515:00	0.24	-	0.30	81.36				52.6				
0522:30	0.30	0.48	0.36	132.75				58.5				
0530:00	0.60	0.60	0.12	113.6				63.3				
0537:30	0.30	0.48	0.12	104.5				57.1				
0545:00	0.24	0.36	0.12	104.5				54.6				
0552:30	0.18	0.36	0.18	104.5				-				
0600:00	0.12	0.12	0.24	92.2				-				
[illegible]								-				
[illegible]								-				

Table 6-152 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 (Cont'd.) MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0607:30	0.30	0.24	0.24	92.2								
0615:00	0.12	0.18	0.24	98.1								
0622:30	0.12	0.42	0.12	101.5								
0630:00	0.12	0.0	0.06	98.1								
0637:30	0.06	-	0.33	81.4								
0645:00	-	-	0.24	75.9								
0652:30	-	0.06	0.12	60.2								
0700:00	-	0.12	0.12	59.0								
0707:30	0.09	0.12	0.12	59.0								
0715:00	0.18	0.0	0.06	59.0								
0722:30	0.12	0.0	0.06	59.0								
0730:00	0.0	0.12	0.6	74.9								
0737:30	0	0.12	0.6	81.4								
0745:00	0.36	0.24	0.6	98.1								
0752:30	0.42	0.24	0.6	113.6								
0800:00	0.48	0.12	0.12	132.75								
0807:30	0.09	0.42	0.12	113.6								
0815:00	0.06	0.36	0.12	98.1								
0822:30	0.06	0.30	0.06	81.4								
0830:00	0.0	0.24	0.06	75.85								
0837:30	-	0.0	0.09	74.9								
0845:00	0.36	0.12	0.12	81.36								
0852:30	0.18	0.06	0.12	181.0								
0900:00	0.24	0.24	0.60	217								
0907:30	0.18	0.18	0.45	181.0								
0915:00	0.24	0.12	0.15	181.0								

Table 6-153 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0922:30	0.18	0.12	0.06	215.0								
0930:00	0.12	0.24	0.09	201.65								
0937:30	0.12	0.60	0.12	181.0								
0945:00	0.6	0.36	0.12	161.55								
0952:30	0.3	0.42	0.12	142.6								
1000:00	0.6	0.0	0.12	136.0								
1007:30	0.12	0.30	0.12	113.6								
1015:00	0.12	0.24	0.06	104.45								
1022:30	0.06	0.18	0.09	132.75								
1030:00	0.06	0.0	0.6	161.55								
1037:30	0.27	0.12	0.6	165.1								
1045:00	0.6	0.30	0.24	177.6								
1052:30	0.12	0.24	0.18	156.35								
1100:00	0.36	0.24	0.6	170.2								
1107:30	0.24	0.30	0.24	149.45								
1115:00	0.24	0.36	0.12	149.45								
1122:30	0.24	0.30	0.6	170.2								
1130:00	0.30	0.60	0.12	149.45								
1137:30	0.30	0.40	0.24	161.55								
1145:00	0.30	0.12	0.36	149.5								
1152:30	0.60	0.60	0.24	132.75								
1200:00	0.60	0.60	0.24	113.6								
1207:30	0.60	0.60	0.18	112.8								
1215:00	0.12	-	0.24	113.6								
1222:30	0.12	0.18	0.06	123.0								
1230:00	0.12	0.12	0.12	132.75								

Table 6-154 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10 & 13, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1237:30	0.042	-	0.12	149.45								
1245:00	0.6	0.36	0.06	142.6								
1252:30	0.42	0.72	0.06	113.6								
1300:00	0.24	0.24	0.06	104.5								
1307:30	0.21	0.36	0.12	98.1								
1315:00	0.30	0.12	0.12	104.5								
1322:30	0.0	0.12	0.12	104.4								
1330:00	0.024	0.12	-	98.1								
1337:30	0.024	0.06	-	92.2								
1345:00	0.024	0.12	-	88.25								
1352:30	0.024	0.06	-	84.2								
1400:00	0.06	-	-	81.4								
1407:30	0.06	-	-	74.9								
1415:00	0.06	-	-	74.9								
1422:30	0.06	-	-	70.5								
1430:00	0.12	-	-	65.25								
1437:30	-	-	-	65.25								
1445:00	-	-	-	60.2								
1452:30	-	-	-	60.2								
1500:00	-	-	-	59.0								
				May 13, 1972								
0952:30	0.3	-	0.3	59.0				-				
1000:00	0.3	-	0.24	88.25				103				
1007:30	0.30	-	0.30	149.5				-				

Table 6-155 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1015:00	0.24	-	0.48	132.75				-				
1022:30	0.48	-	0.36	112 8				92				
1030:00	0.60	-	0.48	129.8				-				
1037:30	0.30	-	0.36	149.5				88.5				
1045:00	0.24	-	0.60	142.6				-				
1052:30	0.24	-	0.24	132.75				-				
1100:00	0.24	-	0.24	142.6				-				
1107:30	0.18	-	0.24	149.45				-				
1115:00	0.12	-	0.24	142.6				80.5				
1122:30	0.18	-	0.12	113.6				-				
1130:00	0.24	-	0.24	129.6				-				
1137:30	0.27	-	0.24	132.75				-				
1145:00	0.18	-	0.24	116.6				-				
1152:30	0.12	-	0.12	104.4				-				
1200:00	-	-	0.12	104.4				87.				
1207:30	-	-	0.09	98.1				93.4				
1215:00	-	-	0.06	92.2				97.5				
1222:30	-	-	0.12	88.25				92.				
1230:00	-	-	0.06	81.36				77.5				
1237:30	0.3	-	0.09	70.5				71.0				
1245:00	0.24	-	0.12	74.9				68.0				
1252:30	]0.12	-	0.12	75.85				-				
1300:00	0.12	-	0.06	81.4								
1307:30	0.06	-	0.06	81.4								
1315:00	0.06	-	0.06	81.4								
1322:30	0.06	-	0.06	84.2								

Table 6-156 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 20, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0922:30	0.18				-	-	-	-		-	-	
2.	0.12				658	227	121	-		7.20	4	
3.	0.36				-	-	-	-		-	-	
4.	0.6				838	312	116	-		6.90	2	
5.	1.2				444	218	104	-		7.00	7	
6.	0.6				304	210	101	-		7.10	2	
7.	0.6				252	194	107	300		7.28	2	
8.	0.12				218	186	109	280		6.95	3	
9.	0.12				256	199	98	300		7.35	1	
10.	0				250	127	76	410		7.38	2.5	
11.	0				-	-	-	380		-	3	
12.	0				442	224	72	-		7.25	2.5	
13.	0				284	128	86	390		7.40	2	
14.	0				276	176	81	380		7.20	3	
15.	0				250	110	78	-		7.32	2	
16.	0				258	110	75	-		7.22	2	
17.	0				270	98	71	-		7.10	3	
18.	0				248	94	68	-		7.02	2	
19.	0				332	78	63	-		7.08	2	
20.	0				262	76	60	-		7.12	2	
21.	0				240	82	43	360		7.15	3	
22.	0				168	91	44	540		7.02	4	
23.	0				326	97	40	570		6.98	2	
24.	0				292	94	30	500		7.03	3	

Table6-157 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Oct. 13 & Nov. 2, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2052:30	-	0.12	0.3		-	-	-	-		-	-	-
2100:00	-	0.0	0.06		-	-	-	-		-	-	-
2107:30	-	0.0	0.09		604	486	213	149.6		5.92	5.0	-
2115:00	-	0	0		-	-	-	-		-	-	-
2122:30	-	0.09	0		-	-	-	-		-	-	-
2130:00	-	0	0		430	307	140	143.7		6.12	2	-
2137:30	-	0	0		192	108	46	48.4		-	-	-
2145:00	-	0	0		254	116	54	44.3		6.28	4.0	-
2152:30	-	0.12	0.18		282	132	44	51.5		6.38	3	-
2200:00	-	0.30	0		-	-	-	-		-	-	-
2207:30	-	0.18	0		-	-	-	-		-	-	-
2215:00	-	0.60	0.6		386	198	16	65.3		6.28	4	-
2222:30	-	0.12	0.9		322	167	18	42.9		6.38	3	-
2230:00	-	0.0	0.24		346	150	39	34		6.40	3	-
				November 2, 1971								
0907:30	-	-	-	3.10	-	164	63	418.7	722	7.1	4	-
0915:00	-	-	-	50.0	-	127	34	313.7	718	7.1	3	-
0922:30	-	-	-	115.3	-	139	16	313.7	716	7.3	6	-
0930:00	-	-	-	55.0	-	154	39	336.2	724	7.4	5	-
0937:30	-	-	-	50.0	-	112	22	368.7	730	7.7	3	-
0945:00	-	-	-	23.0	-	119	27	381.2	688	7.2	3	-
1000:00	-	-	-	14.8	-	116	23	363.7	654	7.3	4	-
1007:30	-	-	-	11.0	-	110	19	341.2	623	7.1	7	-
1015:00	-	-	-	9.5	-	98	12	331.2	589	7.1	4	-
1022:30	-	-	-	8.5	-	90	16	358.7	514	7.1	4	-
1030:00	-	-	-	8.5	-	76	14	313.7	519	7.1	3	-

Table 6-158 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: October 16, 1971 MONITORING STATION: Longview 11' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0000:00	-	-	-	3.1								
0007:30	-	-	-	50.00								
0015:00	-	-	-	29.00								
0022:30	-	-	-	205.00								
0030:00	-	-	-	115.3								
0037:30	-	-	-	72.0								
0045:00	-	-	-	50.0								
0052:30	-	-	-	23.0								
0100:00	-	-	-	19.6								
0107:30	-	-	-	14.8								
0115:00	-	-	-	14.8								
0122:30	-	-	-	14.0								
0130:00	-	-	-	14.0								
0137:50	-	-	-	14.0								
0145:00	-	-	-	11.0								
0152:30	-	-	-	11.0								
0200:00	0.12	-	-	11.0								
0207:30	0.24	-	-	-								
0215:00	0.0	0.60	0.6	-								
0222:30	0.0	0.30	0.09	-								
0230:00	0.3	0.12	0.06	-								
0237:30	0.15	0.0	0.012	-								
0245:00	0.0	0.48	0.012	-								
0252:30	0.0	0.0	-	-								
0300:00	0.0	0.0	-	-								
0307:30	0.3	0.0	0.42	-								
0315:00	0.6	0.36	0.6	-								

Table6-159 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 19 & Dec. 7, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0615:00	0.24	0.0	0.06	11.0	-	-	-	-	-	7.9	-	-
0622:30	0.06	0.06	0.09	35.7	316	124	76	124.6	196	7.6	5	-
0630:00	-	0.12	0.12	54.4	-	-	-	-	-	-	-	-
0637:30	-	0.12	-	50.0	-	-	-	-	-	-	-	-
0645:00	-	-	-	35.7	-	-	-	-	-	-	-	-
0652:30	-	-	-	23.0	-	-	-	-	-	-	-	-
0700:00	-	-	-	19.6	228	120	24	123.1	227	7.8	4	-
0707:30	-	-	-	18.0	276	110	27	68.1	220	7.1	4	-
0715:00	-	-	-	14.8	289	103	31	39.3	291	7.3	3	-
0722:30	-	-	-	13.4	307	94	41	33.7	167	7.3	4	
0730:00	-	-	-	11.0	351	72	22	28.1	141	7.2	6	-
0737:30	-	-	-	9.5	390	81	19	22.5	112	7.2	5	-
				December 7, 1971								
0530:00	-	-	-	14.0								
0537:30	-	-	-	11.0								
0545:00	-	-	-	11.0								
0600:00	-	-	0.24	8.50								
0615:00	0.12	-	0.24	8.50								
0622:30	0.18	-	0.24	5.30								
0630:00	0.0	0.18	0.24	11.0								
0637:30	-	0.24	0.036	31.8								
0645:00	-	0.0	0.048	29.8								
0652:30	-	0.06	0.06	23.0								
0700:00	-	0.12	0.06	14.8								

Table 6-160 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Dec. 11 & 30, 1971 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1030:00	-	-	-	3.1								
1037:30	-	-	-	35.60								
1045:00	-	-	-	89.5								
1052:30	-	-	-	50.0								
1100:00	-	-	-	23.0								
1107:30	-	-	-	19.6								
1115:00	-	-	-	19.6								
1122:30	-	-	-	14.8								
1130:00	-	-	-	13.4								
1137:30	-	-	-	11.0								
1145:00	-	-	-	11.0								
1152:30	-	-	-	8.5								
1200:00	-	-	-	8.5								
				December 30, 1971								
0430:00	0.06	0.06	-	33.65								
0437:30	0.06	0.03	-	44.9								
0445:00	0.024	0.06	-	108.6								
0452:30	0.048	0.03	-	89.5								
0500:00	0.6	0.60	0.30	80.0								
0507:30	0.45	0.30	0.18	80.0								
0515:00	0.3	0.60	0.30	80.0								
0522:30	0.3	0.72	0.36	80.0								
0530:00	0.3	0.36	0.06	72.0								
0537:30	0.30	0.48	0.33	143.0								

Table 6-161 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 30, 1971 (Cont'd.) MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0545:00	0.24	0.24	0.24	108.6								
0552:30	0.30	0.48	0.18	72.0								
0600:00	0.96	0.24	0.60	44.9								
0607:30	0.24	0.60	0.30	35.7								
0615:00	0.24	0.60	0.12	29.0								
0622:30	0.54	0.60	0.24	21.4								
0630:00	0.0	0.24	0.12	21.4								
0637:30	0-	0.12	0.18	21.4								
0645:00	0-	0.06	0.12	44.9								
0652:30	0-	0.0	0.18	80.0								
0700:00	0	0	0.15	54.4								
0707:30	0.24	0	0.18	52.1								
0715:00	0.12	0	0	54.4								
0722:30	0.18	0.06	0	54.4								
0730:00	0.12	0.12	0	35.7								
0737:30	0.06	0.0	0	35.7								
0745:00	0.024	0.18	0	72.0								
0752:30	0.06	0.12	0	108.6								
0800:00	0	0.12	0	66.1								
0807:30	0.30	0.12	0	44.9								
0815:00	0.24	0.24	0	35.7								
0822:30	0.18	0.18	0	29.0								
0830:00	0.0	0.12	0	23.0								

Table6-162 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 15, 18 & 19, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				March 15, 1972								
1245:00	-	-	-	19.6								
1252:30	-	-	-	39.0								
1300:00	-	-	-	35.7								
1307:30	-	-	-	31.0								
1315:00	-	-	-	30.0								
1322:30	-	-	-	23.0								
1330:00	-	-	-	19.6								
				March 18, 1972								
2137:30	-	-	-	23.0								
2145:00	-	-	-	39.								
2152:30	-	-	-	35.6								
2200:00	-	0.12	0.036	23.0								
2207:30	-	0.06	0.066	19.6								
2215:00	-	0.0	0.072	35.7								
2222:30	-	-	0.06	54.4								
2230:00	-	-	0.036	50.0								
2237:30	-	-	0.042	35.7								
2245:00	-	-	0.036	19.6								
2252:30	-	-	0.042	17.0								
				March 19, 1972								
0437:30	-	0.18	-	19.6								
0445:00	-	0.0	-	23.0								
0452:30	-	0.12	-	27.1								

Table 6-163 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 19, 1972 (Cont'd.) MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0500:00	-	0.0	-	27.1								
0507:30	-	0.06	-	27.1								
0515:00	-	0.24	-	27.1								
0522:30	-	0.24	-	27.1								
0530:00	-	0.30	-	35.6								
0537:30	-	0.36	-	66.1								
0545:00	-	0.24	-	68.2								
0552:30	-	0.36	-	72.0								
0600:00	-	0.30	-	72.0								
0607:30	-	0.0	-	50.0								
0615:00	-	0.06	-	44.9								
0622:30	-	0.12	-	35.7								
0630:00	-	0.06	-	29.0								
0637:30	-	0.12	-	23.0								
0645:00	-	0.06	-	21.36								
0652:30	-	0.0	-	23.0								
0700:00	-	0.03	-	29.0								
0707:30	-	0.12	-	29.0								
0715:00	-	0.21	-	29.0								
0722:30	-	0.0	-	29.0								
0730:00	-	0.06	-	27.1								
0737:30	-	0.06	-	29.0								
0745:00	-	0.09	-	29.0								
0752:30	-	0.12	-	35.7								
0800:00	-	0.12	-	39.0								
0807:30	-	0.21	-	40.0								

Table 6-164 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 19 & 21, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0815:00	-	0.09	-	42.5								
0822:30	-	0.12	-	44.9								
0830:00	-	0.18	-	50.0								
0837:30	-	0.06	-	42.5								
0845:00	-	0.06	-	35.7								
0852:30	-	0.03	-	29.0								
0900:00	-	0.0	-	23.0								
0907:30	-	0.0	-	21.4								
0915:00	-	0.0	-	19.6								
				March 21, 1972								
1945:00	0.12	0.12	0.12	35.7								
1952:30	0	0.12	0.12	35.7								
2000:00	0	0.12	0.12	35.7								
2007:30	0	0.12	0.072	35.7								
2015:00	0	0.12	0.024	35.7								
2022:30	0	0.0	0.036	35.7								
2030:00	0.096	0.12	0.06	35.7								
2037:30	0.096	0.12	0.06	35.7								
2045:00	0.096	0.12	0.12	35.7								
2052:30	0.108	0.06	0.06	35.7								
2100:00	0.0	0.0	0.0	37.4								
2107:30	0.15	0.30	0	37.4								
2115:00	0.3	0.60	0.60	71.8								
2122:30	0.3	0	0.30	94.3								
2130:00	0.0	0.0	0	60.2								
2137:30	0	0.12	0	47.9								

Table 6-165 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 21, 22, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2145:00	-	-	-	35.7								
2152:30	-	-	-	31.0								
2200:00	-	-	-	30.0								
2207:30	-	-	-	27.1								
				March 22, 1972								
0330:00	-	-	-	11.0	350	261	99	52.5	161	7.10	5	-
0337:30	-	-	-	11.0	250	273	94	50.9	64	7.18	6	-
0345:00	-	0.24	-	11.0	260	214	92	50.0	74	7.09	6	-
0352:00	-	0.0	-	11.0	242	209	86	54.1	78	7.07	6	-
0400:00	-	0.0	-	11.0	288	189	82	56.6	140	7.11	5	-
0407:30	-	0.06	-	13.4	244	171	81	59.7	158	7.18	4	-
0415:00	-	0.12	-	15.6	262	184	79	63.7	321	7.28	5	-
0430:00	-	0.12	0.012	19.6	254	165	78	56.6	444	7.18	3	-
0437:30	-	0.0	0.020	25.0	260	161	75	56.6	550	7.16	3	-
0445:00	-	-	0.0	23.0	348	160	71	52.5	440	7.17	3	-
0452:30	-	-	0.0	21.4	310	137	70	50.8	408	7.30	3	-
0500:00	-	-	0	19.6	228	128	74	48.4	403	7.41	4	-
0507:30	-	-	0	17.8	346	115	73	44.3	372	7.35	4	-
0515:00	-	-	0	14.8	208	107	63	42.8	335	7.38	5	-
0522:30	-	-	0	14.0	204	104	28	45.3	573	7.22	4	-
0530:00	-	-	0	13.4	196	109	49	45.3	531	7.18	4	-

Table 6-166 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 29, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0515:00	-	-	-	25.0	-	-	-	-	-	-	-	-
0522:30	-	-	-	41.2	-	-	-	-	-	-	-	-
0530:00	-	-	-	47.9	327	179	64	46.8	470	7.1	6	-
0537:30	-	-	-	44.9	389	184	61	48.4	139	7.4	8	-
0545:00	-	-	-	41.2	352	192	59	45.9	134	7.2	5	-
0552:30	-	-	-	43.0	390	126	53	52.5	125	7.2	2	-
0600:00	-	-	-	35.7	-	124	55	50.9	152	7.7	4	-
0607:30	-	-	-	32.0	-	116	50	53.4	184	7.6	6	-
0615:00	-	-	-	30.0	276	119	43	49.3	211	7.4	5	-
0622:30	-	-	-	27.1	271	131	40	46.8	372	7.9	7	-
0630:00	-	-	-	25.0	214	127	39	42.8	206	7.5	5	-
0637:30	-	-	-	23.0	290	108	27	41.8	152	7.5	6	-
0645:00	-	0.24	-	20.5	312	101	34	37.8	179	7.5	5	-
0552:30	0.24	0.18	-	19.6	278	91	25	37.8	148	7.1	8	-
0700:00	0.12	0.0	-	16.4	224	203	27	35.3	99	7.1	-	-

Table6-167 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 3, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1852:30	-	-	0.012	32.00								
1900:00	-	0.06	-	30.0								
1907:30	-	0.06	-	27.1								
1915:00	-	0.03	-	25.0								
1922:30	0.24	0.12	-	41.3								
1930:00	0.24	0.12	-	47.9								
1937:30	0.06	0.24	0.030	41.3								
1945:00	0.06	0.18	0.06	35.7								
1952:30	0.06	0.0	0.09	30.0								
2000:00	0.06	0.06	0.06	27.1								
2007:30	0.12	0.24	0.06	27.1								
2015:00	0.12	0.12	0.12	27.1								
2022:30	0.12	0.24	0.24	27.1								
2030:00	0.12	0.48	0.12	30.0								
2037:30	0.048	0.06	0.12	30.0								
2045:00	0.024	0.06	0.06	30.0								
2052:30	0.06	0.09	0.06	30.0								
2100:00	0.06	0.12	0.024	27.1								
2107:30	0.06	0.12	0.024	25.0								
2137:30	0.06	0.0	0.024	35.7								
2145:00	0.06	0.06	0.042	66.1								
2152:30	0.12	0.24	0.12	73.5								
2200:00	0.12	0.12	0.12	71.0								
2207:30	0.12	0.0	0.12	52.1								
2215:00	0.06	0.18	0.072	35.7								
2222:30	0.0	0.06	0.024	30.0								

Table 6-168 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 3 & 7, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				April 3, 1972								
2230:00	-	0.09	0.096	27.1								
				April 7, 1972								
1037:30	-	-	-	25.0	-	-	-	-	-	-	-	
1045:00	-	-	-	35.7	528	312	116	34.2	180	7.12	11	
1052:30	-	-	-	35.7	462	270	122	32.7	190	7.18	6	
1100:00	-	0.12	-	35.7	512	291	109	41.7	239	7.08	3	
1107:30	-	0.24	-	71.0	506	186	101	48.8	272	7.07	4	
1115:00	-	0.24	0.24	87.8	488	154	94	48.8	253	7.16	3	
1122:30	-	0.18	0.36	78.6	440	171	76	46.1	238	7.12	4	
1130:00	-	0.0	0.24	47.9	634	150	84	41.7	214	7.38	5	
1137:30	-	0.18	0.42	35.7	534	141	64	40.1	180	7.26	7	
1145:00	-	0.24	0.24	30.0	492	121	53	42.6	156	7.24	8	
1152:30	-	0.24	0.24	25.0	492	116	48	31.1	117	7.10	7	
1200:00	-	0.52	0.48	16.40	556	98	51	31.1	103	7.30	8	
1207:30	-	0.12	0.0	14.8	508	76	39	31.1	73	7.22	8	
1337:30	-	0.06	0.027	27.1								
1345:00	-	0.0	0.30	33.7								
1352:30	-	0.30	0.27	47.9								
1400:00	-	0.36	0.12	55.8								
1407:30	-	0.12	0.12	63.2								
1415:00	-	0.0	0.24	71.0								
1422:30	-	-	-	78.6								

Table 6-169 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7 & 13, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1430:00	-	-	-	73.5								
1437:30	-	-	0.24	71.0								
1445:00	-	0.12	0.24	63.2								
1452:30	-	0.12	0.12	63.2								
1500:00	-	0.12	0.06	60.2								
1507:30	-	0.06	0.06	63.2								
1515:00	-	0.0	0.06	60.2								
1522:30	-	0.09	0.06	55.8								
1530:00	-	0.06	0.06	44.9								
1537:30	-	0.06	0.06	41.25								
1545:00	-	0.12	0.06	35.7								
1552:30	-	0.12	0.06	33.7								
1600:00	-	0.0	0.048	32.0								
1607:30	-	-	0.048	30.0								
1615:00	-	-	0.048	30.0								
1622:30	-	-	0.052	28.5								
1630:00	-	-	0.06	27.1								
				April 13, 1972								
0622:30	-	-	0.6	14.8	-	-	-	-	-	-	-	-
0630:00	-	0.36	0.6	379.0	-	-	-	-	-	-	-	-
0637:30	-	2.28	0.42	313.2	522	317	107	44.8	181	7.39	6	-
0645:00	-	0.84	0.24	220.3	-	-	-	-	-	-	-	-
0652:30	-	0.30	0.18	115.3	528	428	238	46.1	190	8.03	4	-
0700:00	-	0.24	0.12	93.0	582	431	249	47.3	200	8.00	5	-

Table 6-170 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 13 & 15, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0707:30	-	0.18	0.12	93.0	568	424	257	52.9	205	7.25	6	-
0715:00	-	0.36	0.12	106.4	536	439	291	51.4	242	7.22	6	-
0722:30	-	0.24	0.24	118.83	538	454	300	47.3	190	7.20	9	-
0730:00	-	0.18	-	104.2	942	578	341	41.7	176	7.36	5	-
0737:30	-	0.24	-	78.57	586	417	317	32.6	167	7.40	5	-
0745:00	-	0.42	-	71.00	536	414	289	31.1	157	7.42	6	-
0752:30	-	0.12	-	55.7	568	439	250	31.1	133	7.50	6	-
0800:00	-	0.24	0.06	47.9	-	-	-	-	-	-	-	-
0807:30	-	0.12	0.09	47.9	666	541	244	27.9	86	7.48	5	-
0815:00	-	0.30	0.12	47.9	-	-	-	-	-	-	-	-
0822:30	-	-	0.12	41.2	-	-	-	-	-	-	-	-
0830:00	-	-	-	41.2	-	-	-	-	-	-	-	-
0837:30	-	-	-	35.7	-	-	-	-	-	-	-	-
0845:00	-	-	-	32.0	-	-	-	-	-	-	-	-
0852:30	-	-	-	31.0	-	-	-	-	-	-	-	-
0900:00	-	-	-	30.0	-	-	-	-	-	-	-	-
0907:30	-	-	-	28.6	-	-	-	-	-	-	-	-
				April 15, 1972								
0615:00	-	-	0.12	11.0	-	-	-	-	-	-	-	-
0622:30	-	-	0.12	19.6	526	342	106	46.1	-	8.03	8	-
0630:00	-	-	0.12	23.0	444	311	131	44.2	151	9.00	5	-
0637:30	-	-	0.12	27.1	-	-	-	-	-	-	-	-
0645:00	-	-	0.12	21.4	478	256	109	44.2	131	9.02	4	-
0652:30	-	-	0.06	19.6	506	278	98	-	122	9.41	5	-

Table 6-171 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 15 & 16, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0700:00	-	-	0.024	19.6	514	284	94	-	117	10.72	4	-
0707:30	-	-	0.024	19.6	534	291	78	-	97	9.59	4	-
0715:00	-	-	0.024	19.6	510	211	86	-	100	9.48	6	-
0722:30	-	-	0.042	19.6	490	199	81	-	95	8.86	6	-
0730:00	-	-	0.06	19.6	510	184	83	-	76	8.74	10	-
0737:30	-	-	0.06	14.8	514	187	87	-	72	7.60	12	-
0745:00	-	-	0.06	16.4	600	190	94	-	57	8.60	5	-
0752:30	-	-	0.03	16.4	556	210	71	-	-	9.67	7	-
0800:00	-	-	-	16.4	650	244	72	-	100	9.05	6	-
0807:30	-	-	-	13.4	340	116	48	-	-	10.01	6	-
0815:00	-	-	0.024	60.2	410	176	40	-	-	10.20	4	-
0822:30	-	-	0.18	47.8	274	184	55	49.8	-	7.86	5	-
0830:00	-	-	0.24	35.7	-	-	-	-	-	-	-	-
0837:30	-	-	0.18	30.0	468	112	38	41.7	-	7.94	4	-
0845:00	-	-	-	25.0	356	128	39	33.5	-	8.24	4	-
0852:30	-	-	-	21.3	764	114	43	27.9	-	7.88	5	-
0900:00	-	-	-	19.6	292	196	27	22.3	-	7.64	6	-
0907:30	-	-	-	19.6	436	134	16	17.3	-	7.82	6	-
				April 16, 1972								
0130:00	-	-	0.06	53.9								
0137:30	-	-	0.042	47.9								
0145:00	-	0.48	0.024	35.7								
0152:30	-	0.12	0.018	27.1								
0200:00	-	0.06	0.0	25.0								
0207:30	-	0.0	-	35.7								

Table 6-172 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 16, 1972 (Cont d.) MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0215:00	-	0.06	-	47.9								
0222:30	-	0.24	0.06	64.7								
0230:00	-	0.06	0.12	60.2								
0237:30	-	0.12	0.18	52.1								
0245:00	-	0.12	0.36	102.0								
0252:30	-	0.24	0.06	94.3								
0300:00	-	0.18	0.18	94.3								
0307:30	-	0.36	0.6	87.8								
0315:00	-	0.30	0.18	106.4								
0322:30	-	0.24	0.42	115.3								
0330:00	-	0.30	0.3	115.3								
0337:30	-	0.30	0.24	154.3								
0345:00	-	0.45	0.24	115.3								
0352:30	-	0.24	0.42	94.3								
0400:00	-	0.18	0.6	87.8								
0407:30	-	0.72	0.30	94.3								
0415:00	-	0.24	0.06	99.4								
0422:30	-	0.12	0.09	99.4								
0430:00	-	0.24	0.12	87.8								
0437:30	-	0.12	0.12	87.8								
0445:00	-	0.24	0.24	78.6								
0452:30	-	0.12	0.24	94.3								
0500:00	-	0.30	0.12	106.4								
0507:30	-	0.12	0.12	94.3								
0515:00	-	0.24	0.24	78.6								
0522:30	-	0.36	0.30	71.0								
0530:00	-	0.24	0.06	71.0								

Table 6-173 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 16, 1972 (Cont'd.) MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0537:30	-	0.18	0.06	78.6								
0545:00	-	0.0	0.06	71.0								
0552:30	-	0.0	0.30	60.2								
0600:00	-	0.24	0.6	55.8								
0607:30	-	0.18	-	47.9								
0615:00	-	0.0	-	45.4								
0622:30	-	-	-	44.9								
0630:00	-	-	-	44.9								
0637:30	-	-	-	55.8								
0645:00	-	-	-	60.2								
0652:30	-	-	-	55.8								
0700:00	-	0.24	-	47.9								
0707:30	-	0.18	-	44.9								
0715:00	-	-	-	41.25								
0722:30	-	-	-	41.3								
0730:00	-	-	-	41.3								
0757:30	-	-	-	41.3								
0745:00	-	-	-	41.3								
0752:30	-	-	-	41.3								
0800:00	-	0.12	-	41.3								
0807:30	-	0.06	-	41.3								
0815:00	-	-	-	41.3								
0822:30	-	-	-	41.3								
0830:00	-	-	-	41.3								
0837:30	-	-	-	41.3								
0845:00	-	0.12	-	41.3								

Table 6-174 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 16, 19 & 20, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0852:30	-	0.12	-	32.0								
0900:00	-	-	-	32.0								
0907:30	-	-	-	30.0								
0915:00	-	-	-	30.0								
0922:30	-	-	-	30.0								
0930:00	-	-	-	30.0								
0937:30	-	-	-	25.0								
				April 19, 1972								
1615:00	0.30	0.12	0.12	30.0								
1622:30	0.06	0.12	0.24	35.7								
1630:00	0.12	0.12	0.06	35.6								
1637:30	0.12	0.06	0.03	32.0								
1645:00	0.12	0.18	0.24	30.0								
1652:30	0.12	0.30	0.24	30.0								
1700:00	0.12	0.24	0.24	60.2								
1707:30	0.06	0.18	0.36	41.2								
1715:00	-	-	-	35.7								
1722:30	-	-	-	27.1								
1730:00	-	-	-	25.0								
				April 20, 1972								
0630:00	-	-	-	11.0	-	-	-	-	-	-	-	-
0637:30	-	-	-	14.8	660	271	107	99.5	235	7.32	12	-
0645:00	0.24	0.12	-	21.4	666	249	114	99.5	230	7.70	10	-
0652:30	0.18	0.24	-	35.7	774	273	171	105	255	7.10	11	-

Table 6-175 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 20 & 21, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0700:00	-	0.12	0.24	41.2	816	294	153	113	269	7.60	9	-
0707:30	0.12	-	0.24	44.9	772	321	149	113	264	9.12	8	-
0715:00	0.24	0.36	0.24	47.9	758	316	141	102	264	9.32	7	-
0722:30	0.06	0.24	0.12	41.3	976	378	133	93	245	9.30	7	-
0736:00	0.6	0.12	0.12	35.7	662	355	107	93.5	250	10.88	7	-
0737:30	0.12	0.18	0.48	30.0	1248	341	109	85.5	255	10.24	6	-
0745:00	0.12	0.24	0.60	25.0	798	333	98	76	250	8.64	6	-
0752:30	0.12	0.06	0.42	19.7	1072	289	94	71	230	7.82	5	-
0800:00	0.0	0.0	0.12	19.7	790	270	96	58	230	7.50	4	-
0807:30	-	-	0.12	17.8	792	250	92	55	212	7.26	3	-
0815:00	-	-	-	16.4	418	246	86	43.5	207	7.24	4	-
0822:30	-	-	-	14.8	570	237	84	30.5	188	7.10	4	-
0830:00	-	-	-	14.8	474	217	82	30.5	178	8.60	5	-
0837:30	-	-	-	15.6	514	189	81	28	159	7.98	5	-
0845:00	-	-	-	14.8	546	150	78	22.5	149	9.80	6	-
0852:30	-	0.30	-	14.8	774	132	76	22.5	130	8.42	6	-
0900:00	-	-	-	14.8	328	141	64	25	115	8.62	4	-
0907:30	-	-	0.12	14.0	478	152	69	18.4	96	9.16	4	-
0915:00	-	-	0.36	13.4	568	139	37	18.4	77	9.38	3	-
0922:30	-	-	-	12.0	570	131	45	18.4	68	9.24	4	-
				April 21, 1972								
1245:00	-	0.12	0.002	30.0								
1252:30	0.018	0.09	0.002	32.0								
1300:00	0.12	0.06	0.005	32.0								
1307:30	0.12	0.12	0.005	30.0								

Table 6-176 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 5, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2107:30	-	-	-	25.0	164	98	26	97.7	-	7.2	6	-
2115:00	-	-	-	21.36	186	104	34	87.7	-	7.3	5	-
2122:30	-	-	-	19.62	212	116	71	92.7	-	7.4	4	-
2130:00	-	-	-	14.8	224	129	86	100	-	7.4	3	-
2137:30	-	-	-	14.0	276	124	91	87.7	-	7.4	-	-
2145:00	-	-	-	13.4	381	176	97	96.2	-	7.6	4	-
2152:30	-	-	-	12.0	317	122	90	81.5	-	7.1	4	-
2200:00	-	-	-	11.0	324	145	87	80.0	-	7.5	6	-
2207:30	-	-	-	12.0	350	129	81	77.5	-	7.2	6	-
2215:00	-	-	-	13.4	278	126	76	72.8	-	7.1	4	-
2222:30	-	-	-	14.0	272	124	70	53.7	-	7.1	7	-
2230:00	-	-	-	14.8	227	118	64	55.3	-	7.1	5	-
2237:30	-	-	-	35.7	218	98	62	55.3	-	7.1	9	-
2245:00	-	-	-	66.1	224	76	57	60.3	-	7.3	7	-
2252:30	-	-	-	73.5	216	86	60	56.2	-	7.4	6	-
2300:00	-	-	-	71.0	186	82	54	52.2	-	7.7	5	-
2307:30	-	-	-	52.1	112	92	50	53.1	-	7.2	6	-
2315:00	-	-	-	35.7	171	96	47	44.3	-	7.3	9	-
2332:30	-	-	-	30.0	116	71	33	45.3	-	7.5	7	-
2330:00	-	-	-	27.1	124	79	21	42.8	-	7.5	8	-
2337:50	-	-	-	26.0	109	76	19	42.8	-	7.5	8	-
2345:00	-	-	-	25.0	-	-	-	-	-	-	-	-
2352:30	-	-	-	25.0	-	-	-	-	-	-	-	-
2400:00	-	-	-	25.0	-	-	-	-	-	-	-	-

Table 6-177 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 21 & 24, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1315:00	-	0.06	0.06	30.0								
1322:30	-	0.0	0.06	30.0								
1330:00	-	0.24	0.06	30.0								
1337:30	0.12	0.18	0.06	27.1								
				April 24, 1972								
1.					-	-	-	-	-	-	-	-
2.					894	457	186	119	285	7.20	7	-
3.					996	455	197	116	276	7.18	6	-
4.					874	312	172	125	290	7.32	6	-
5.					768	327	181	153	310	7.08	8	-
6.					744	352	174	103	281	7.06	5	-
7.					044	617	16	97	271	7.10	5	-
8.					794	622	127	84	257	7.12	5	-
9.					784	481	184	82	257	7.14	4	-
10.					828	416	112	101	271	6.98	4	-
11.					834	418	196	95	266	6.86	3	-
12.					706	397	128	91	257	7.02	5	-
13.					886	324	168	72	247	7.28	6	-
14.					242	288	134	75	252	7.16	5	-
15.					552	212	155	69	232	7.24	4	-
16.					552	297	163	69	213	7.16	3	-
17.					322	207	139	68	194	7.24	3	-
18.					464	190	136	66.5	184	7.08	4	-
19.					362	180	121	77.2	169	7.06	4	-
20.					430	173	120	71	149	7.14	5	-

Table 6-178 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 24 & May 13, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
					April 24, 1972 (Cont'd.)							
21.					514	165	120	78.7	134	7.14	4	-
22.					378	134	116	63	101	7.12	4	-
23.					376	131	97	63	77	7.20	4	-
24.					364	129	76	63	82	7.18	3	-
					May 13, 1972							
1.								-		-		
2.								120.6		7.1		
3.								114.3		7.4		
4.								112.8		7.3		
5.								100.		7.9		
6.								111.2		7.7		
7.								120.6		7.4		
8.								131.8		[illegible].7		
9.								123.1		7.1		
10.								116.8		7.5		
11.								107.5		7.5		
12.								96.5		7.5		
13.								85.6		7.5		
14.								77.5		7.1		
15.								71.8		7.3		
16.								71.8		7.6		
17.								67.8		7.4		
18.								66.1		7.6		
19.								72.5		7.6		

Table 6-179 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1330:00	0.06	-	0.06	88.25								
1337:30	0.06	-	0.024	81.4								
1345:00	0.12	-	0.024	75.85								
1352:30	-	-	0.036	74.9								
1400:00	0.06	-	0.048	65.25								
1407:30	0.09	-	0.024	65.25								
1415:00	0.12	-	0.048	65.25								
1422:30	0.12	-	0.024	65.25								
1430:00	-	-	-	59.0								
1437:30	-	-	-	59.0								
1445:00	-	-	-	59.0								
1452:30	-	-	-	59.0								
1500:00	-	-	-	59.0								

Table 6-180 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 (Cont'd.) MONITORING STATION: Longview 12' x 9'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
20.								71.8		7.3		
21.								68.5		7.3		
22.								61.1		7.3		
23.								62.8		7.1		
24.								58.5		7.1		

Table 6-181 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 11, 1971 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Suspended Solids (mg/l)	Volatile Sus. Solids			pH	Coliform x 10^4
	Laidlaw Gage	Woodward Gage	Ridge Gage								
0622:30	-	-	-	123.7	1974	1124	712	53	571	-	-
0630	-	.96	-	587.3	2308	1677	428	52	580	7.19	146
0637:30	.84	.96	.24	547.5	1672	1422	419	-	-	-	24
0645	.84	.96	.24	496.2	1552	1109	716	25	281	7.78	32
0652:30	.12	-	-	398.0	758	428	182	21	273	7.76	28
0700	.12	-	-	425.6	738	452	116	28	352	7.57	17
0707:30	.06	.036	-	496.2	1170	714	238	32	285	7.47	86
0715	.06	.036	-	528.0	544	352	109	28	218	7.58	3
0722:30	.06	.036	-	363.5	452	327	89	15	210	7.51	8
0730	.06	.036	-	313.8	452	307	76	14	265	7.58	5
0737:30	.024	.012	.48	280.0	578	311	79	13	285	7.58	3
0745	.024	.012	.60	266.70	856	529	275	17	281	7.57	10
0752:30	.024	.012	.24	280.0	788	423	140	14	285	7.60	12
0800	.024	.012	.12	236.6	842	412	139	23	273	7.49	11
0807:30	.024	-	-	185.7	960	516	307	29	281	7.58	18
0815	.024	-	-	104.4	916	519	341	22	269	7.56	19
0822:30	.024	-	-	94.6	728	475	209	25	190	7.71	42
0830	.024	-	-	165.7	824	495	291	26	198	7.80	31
0937:30	.06	-	.03	208.7	1574	1124	545	23	380	7.89	24
0945	.12	-	.12	236.7	1690	1286	620	23	372	7.87	162
0952:30	.12	.084	.12	236.7	1368	1109	701	25	384	7.59	152
1000	.12	.084	.12	236.7	228	172	49	14	285	-	30
1007:30	.12	.12	.12	236.7	942	478	235	14	285	7.70	20
1015:00	.12	.12	-	194.0							
1030:00	.0	.12	-	127.7							
1037:30	.0	.12	-	75.1							
1045:00	.0	.0	-	58.2							

Table 6-182 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 12 & 13, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2315:00	-	-	-	691.0								
2322:30	-	-	-	916.5								
2330:00	-	-	-	892.3								
2337:30	-	-	-	869.2								
2345:00	-	-	-	844.2								
2352:30	-	-	-	691.2								
2400:00	-	-	-	587.3								
				September 13, 1971								
0007:30	-	0.30	-	528.0								
0015:00	-	0.12	-	483.8								
0022:30	-	0.30	-	398.0								
0030:00	-	0.36	-	381.0								
0037:30	-	0.66	-	363.5								
0045:00	-	0.96	-	330.2								
0052:30	-	0.60	-	298.0								
0100:00	-	0.24	-	280.0								
0107:30	-	0.06	-	266.7								
0115:00	-	0.12	-	251.5								
0122:30	-	0.06	-	236.6								
0130:00	-	-	-	221.7								
0137:30	-	-	-	208.7								
0145:00	-	-	-	165.7								
0152:30	-	-	-	117.7								
0200:00	-	-	-	94.58								
0207:30	-	-	-	67.73								

Table 6-183 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 13 & 20, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0215:00	-	-	-	67.73								
0222:30	-	-	-	72.67								
0230:00	-	-	-	75.10								
0237:30	-	-	-	67.7								
				September 20, 1971								
0715:00	-	0.12	-	75.1								
0722:30	-	0.06	-	58.2								
0730:00	-	0.0	-	398.0								
0737:30	0.15	0.06	-	398.0								
0745:00	0.30	0.12	-	398.0								
0752:30	0.36	0.54	-	483.8								
0800:00	0.36	0.12	-	398.0								
0807:30	0.27	0.36	-	313.8								
0815:00	0.18	0.36	-	236.6								
0822:30	0.12	0.30	0.09	215.2								
0830:00	0.12	0.12	0.12	236.6								
0837:30	0.09	0.06	0.09	398.0								
0845:00	0.06	0.24	0.12	496.2								
0852:30	-	0.12	0.09	547.5								
0900:00	-	0.0	0.0012	483.8								
0907:30	-	-	0.0006	398.0								
0915:00	-	-	-	313.8								
0922:30	0.09	0.12	-	280.0								
0930:00	0.18	0.24	0.18	266.7								
0937:30	0.12	0.30	0.21	251.5								

Table6-184 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 20, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0945:00	0.6	0.12	0.6	236.6								
0952:30	1.2	0.9	0.9	208.7								
1000:00	0.6	0.6	0.6	165.7								
1007:30	0.6	1.5	1.8	165.7								
1015:00	0.12	0.6	0.24	236.6								
1022:30	0.12	0.36	0.18	691.0								
1030:00	-	0.12	-	892.3								
1037:30	-	-	-	892.3								
1045:00	-	-	-	800.5								
1052:30	-	-	-	587.3								
1100:00	-	-	-	508.5								
1107:30	-	-	-	433.4								
1115:00	-	-	-	398.0								
1122:30	-	-	-	313.8								
1130:00	-	-	-	266.7								
1137:30	-	-	-	251.5								
1145:00	-	-	-	221.7								
1152:30	-	-	-	194.0								
1200:00	-	-	-	165.7								
1207:30	-	-	-	127.68								
1215:00	-	-	-	94.58								
1222:30	-	-	-	67.73								

Table 6-185 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: September 26, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0115:00	0.048	0.60	0.06	194.2								
0122:30	0.084	0.15	0.12	236.6								
0130:00	-	0.48	0.24	208.7								
0137:30	-	0.18		178.1								
0145:00	-	0.84	0.06	152.2								
0152:30	-	0.9		127.7								
0200:00	0.12	0.6	0.6	537.3								
0207:30	0.18	0.39	0.6	778.4								
0215:00	1.2	0.60	0.6	755.5								
0222:30	1.2	0.06	0.9	670.0								
0230:00	0	-	-	755.5								
0237:30	0.6	-	-	778.4								
0245:00	0.6	-	-	800.55								
0252:30	0.6	-	-	778.4								
0300:00	0.6	-	-	755.5								
0307:30	-	-	-	734.2								
0315:00	-	-	-	567.0								
0322:30	-	-	-	483.8								
0330:00	-	-	-	433.4								
0337:30	-	-	-	398.0								
0345:00	-	-	-	347.0								
0352:30	-	-	-	297.9								
0400:00	-	-	-	266.7								
0407:30	-	-	-	251.5								
0415:00	-	-	-	221.7								
0422:30	-	-	-	194.0								

Table 6-186 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Sept. 26, Oct. 13, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0430:00	-	-	-	165.7								
0437:30	-	-	-	127.7								
0445:00	-	-	-	94.6								
0452:30	-	-	-	75.1								
0500:00	-	-	-	58.2								
				October 13, 1971								
2052:30	-	0.12	0.3	58.2	5582	2700	716	-	1100	6.55	32	3400
2100:00	-	0.0	0.06	58.2	5900	2940	627	-	840	9.45	47	3200
2107:30	-	0.0	0.09	25.3	4748	2960	624	-	870	8.32	-	8100
2115:00	-	0.0	0.0	38.5	-	-	-	-	910	-	-	-
2122:30	-	0.09	0.0	50.2	2078	3140	912	-	860	7.72	25	7600
2130:00	-	0.0	0.0	165.7	2062	3270	918	-	720	7.22	18	7300
2137:30	-	0.0	0.0	236.6	938	2780	716	-	710	7.10	20	7400
2145:00	-	0.0	0.0	496.2	1844	2764	810	-	480	8.00	21	8900
2152:30	-	0.12	0.18	458.6	2234	2710	692	-	465	9.55	30	9200
2200:00	-	0.30	0.0	347.0	1944	890	317	-	425	9.90	37	9400
2207:30	-	0.18	0.0	266.7	3330	840	327	-	375	10.10	38	9100
2215:00	-	0.60	0.60	208.7	-	-	-	-	-	-		-
2222:30	-	0.12	0.90	165.7	-	-	-	-	-	-		-
2230:00	-	0.0	0.24	104.4	-	-	-	-	-	-		-
2237:30	-	0.0	0.18	58.2	-	-	-	-	-	-		-

Table 6-187 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: October 16 & 24, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0222:30	0.0	0.30	0.09	104.4								
0230:00	0.3	0.12	0.06	251.50								
0237:30	0.15	0.0	0.012	266.70								
0245:00	0.0	0.48	0.012	208.7								
0252:30	0.0	0.0	0.0	127.7								
0300:00	0.0	0.0	0.0	87.30								
0307:30	0.30	0.0	0.42	75.10								
0315:00	0.6	0.36	0.60	104.4								
0322:30	0.6	0.32	0.90	567.0								
0330:00	0.0	1.32	0.0	691.0								
0337:30	0.0	1.05	0.0	691.0								
0345:00	0.0	0.0	0.0	363.5								
0352:30	0	0.0	0.0	251.5								
0400:00	0	0	0.0	208.7								
0407:30	0	0	0.0	165.7								
0407:15	0	0	0.0	104.4								
				58.2								
				October 24, 1971								
0737:30	0.024	-	0.066	67.7								
0745:00	0.024	-	0.048	75.1								
0752:30	0.042	-	0.048	87.3								
0800:00	0.06	0.12	0.012	75.1								
0807:30	0.06	0.06	0.012	75.1								
0815:00	0.06	0.12	-	75.1								
0822:30	0.06	0.06	-	75.1								

Table 6-188 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: October 24 & Nov. 2, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0830:00	0.024	0.12	-	75.1								
0837:30	0.006	0.0	-	75.1								
0845:00	0.0	0.0	-	75.10								
0852:30	-	0.0	-	87.3								
0900:00	0.06	0.12	0.012	101.3								
0907:30	0.09	0.09	0.102	104.4								
0915:00	0.12	0.06	0.06	117.7								
0922:30	0.06	0.12	0.005	127.7								
0930:00	-	0.0	0.06	127.7								
0937:30	-	0.06	0.09	123.7								
0945:00	-	0.12	0.06	117.7								
0952:30	-	0.06	0.09	117.7								
1000:00	-	-	0.06	104.4								
1007:30	-	-	0.03	104.4								
1015:00	-	-	-	101.3								
1022:30	-	-	-	94.6								
1030:00	-	-	-	94.6								
1037:30	-	-	-	75.1								
1045:00	-	-	-	75.1								
1052:30	-	-	-	75.1								
				November 2, 1971								
0707:30	0.0	0.0	0.0	104.4								
0715:00	0.0	0.0	0	141.8								
0722:30	0.0	0.0	0	557.2								
0730:00	0	0.0	0	496.2								

Table 6-189 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 2 & 6, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0737:30	0	0.0	0	425.6	1600	760	412	377	498	7.6	9	2400
0745:00	0	0.0	0	297.9	1670	480	381	310	716	7.4	7	7100
0752:30	0	0.0	0	330.2	1820	860	390	322	700	7.4	8	2600
0800:00	0.6	1.2	0.12	266.70	1830	890	450	372	810	7.6	13	3900
0807:30	0.9	0.90	1.12	236.6	1960	876	460	395	890	7.4	15	3100
0815:00	0.12	0.0	0.36	165.7	1980	750	480	355	870	7.2	9	8900
0822:30	0.12	0.06	0.12	104.4	-	-	-	-	-	-	-	-
0830:00	0.12	0.0	0.024	75.10	-	-	-	-	-	-	-	-
0837:30	0.0	0.0	0.0	67.7	-	-	-	-	-	-	-	-
0845:00	0.0	0.0	0.0	63.2	-	-	-	-	-	-	-	-
0852:30	0.0	0.0	0.0	63.2	-	-	-	-	-	-	-	-
0900:00	0.0	0.0	0.0	58.2	-	-	-	-	-	-	-	-
				November 6, 1971								
1237:30	0.048	0.6	-	104.4								
1245:00	0.024	0.24	0.3	117.7								
1252:30	0.06	0.0	0.058	127.7								
1300:00	0.06	0.06	0.12	104.4								
1307:30	0.06	0.12	0.06	75.10								
1315:00	0.06	0.12	0.12	63.2								
1322:30	0.06	0.12	0.12	58.2								
1330:00	0.06	0.12	0.144	58.2								
1337:30	0.06	0.06	0.042	63.2								
1345:00	0.024	0.12	0.048	67.7								
1352:30	0.024	0.06	0.042	67.7								
1400:00	0.048	0.0	0.024	67.7								

Table 6-190 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 6 & 11, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				November 6, (Cont'd.)								
1407:30	0.048	0.06	0.024	67.7								
1415:00	0.024	0.0	0.024	67.7								
1422:30	0.060	0.12	0.024	67.7								
1430:00	0.06	0.12	0.048	67.7								
1437:30	0.042	0.12	0.048	75.1								
1445:00	0.06	0.0	0.048	87.3								
1452:30	0.054	0.0	0.048	94.6								
1500:00	0.006	0.0	0.048	104.4								
1507:30	0.06	0.12	0.048	104.4								
1515:00	0.06	0.12	0.096	104.4								
1522:30	0.030	0.12	0.096	94.6								
1530:00	-	-	-	87.3								
1537:30	-	-	-	72.7								
1545:00	-	-	-	75.1								
1552:30	-	-	-	75.1								
1600:00	-	-	-	75.1								
1607:30	-	-	-	72.7								
1615:00	-	-	-	72.7								
1622:30	-	-	-	67.7								
1630:00	-	-	-	67.7								
1637:30	-	-	-	67.7								
				November 11, 1971								
1015:00	-	-	-	67.7								
1022:30	-	-	-	67.7								

Table 6-191 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 11, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				November 11, (Cont'd.)								
1030:00	-	-	-	67.7								
1037:30	-	-	-	67.7								
1045:00	-	-	-	67.7								
1052:30	-	-	-	67.7								
1100:00	-	-	-	72.7								
1107:30	-	-	-	72.7								
1115:00	-	-	-	72.7								
1122:30	-	-	-	73.4								
1130:00	-	-	-	73.4								
1137:30	-	-	-	75.1								
1145:00	-	-	-	75.1								
1152:30	-	-	-	81.1								
1200:00	-	-	-	87.3								
1207:30	-	-	-	87.3								
1215:00	-	-	-	87.3								
1222:30	-	-	-	94.6								
1230:00	-	-	-	94.6								
1237:30	-	-	-	101.3								
1248:00	-	-	-	101.3								
1252:30	-	-	-	104.4								
1300:00	-	-	-	110.1								
1307:30	-	-	-	117.7								
1315:00	-	-	-	127.7								
1322:30	-	-	-	133.6								

Table 6-192 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 11, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1330:00	-	-	-	141.7								
1337:30	-	-	-	152.2								
1345:00	-	-	-	165.7								
1352:30	-	-	-	178.1								
1400:00	-	-	-	178.1								
1407:30	-	-	-	186.0								
1415:00	-	-	-	194.0								
1422:30	-	-	-	104.4								
1430:00	-	-	-	94.58								
1437:30	-	-	-	94.6								
1445:00	-	-	-	94.6								
1452:30	-	-	-	94.6								
1500:00	-	-	-	94.6								
1507:30	-	-	-	94.6								
1515:00	-	-	-	94.6								
1522:30	-	-	-	94.6								
1530:00	-	-	-	94.6								
1537:30	-	-	-	94.6								
1545:00	-	-	-	94.6								
1552:30	-	-	-	94.6								
1600:00	-	-	-	94.6								
1607:30	-	-	-	94.6								
1615:00	-	-	-	94.6								
1622:30	-	-	-	94.6								
1630:00	-	-	-	94.6								
1637:30	-	-	-	94.6								

Table 6-193 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 11, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1645:00	-	-	-	94.6								
1652:30	-	-	-	94.6								
1700:00	-	-	-	94.6								
1707:30	-	-	-	94.6								
1715:00	-	-	-	94.6								
1722:30	-	-	-	94.6								
1730:00	-	-	-	94.6								
1737:30	-	-	-	94.6								
1745:00	-	-	-	94.6								
1752:30	-	-	-	94.6								
1718:00	-	-	-	94.6								
1807:30	-	-	-	101.3								
1815:00	-	-	-	101.3								
1822:30	-	-	-	101.3								
1830:00	-	-	-	101.3								
1837:30	-	-	-	101.3								
1845:00	-	-	-	101.3								
1852:30	-	-	-	101.3								
1900:00	-	-	-	101.3								
1907:30	-	-	-	101.3								
1915:00	-	-	-	101.3								
1922:30	-	-	-	101.3								
1930:00	-	-	-	101.3								
1937:30	-	-	-	101.3								
1945:00	-	-	-	101.3								
1952:30	-	-	-	101.3								

Table 6-194 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 11, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2000:00	-	-	-	101.3								
2007:30	-	-	-	101.3								
2015:00	-	-	-	101.3								
2345:00	-	-	-	94.6								
2352:30	-	-	-	94.6								
2400:00	-	-	-	94.6								
2022:30	-	-	-	101.3								
2030:00	-	-	-	101.3								
2037:30	-	-	-	94.6								
2045:00	-	-	-	94.6								
2052:30	-	-	-	94.6								
2100:00	-	-	-	94.6								
2107:30	-	-	-	94.6								
2115:00	-	-	-	94.6								
2122:30	-	-	-	94.6								
2130:00	-	-	-	94.6								
2137:30	-	-	-	94.6								
2145:00	-	-	-	94.6								
2152:30	-	-	-	94.6								
2200:00	-	-	-	94.6								
2207:30	-	-	-	94.6								
2215:00	-	-	-	94.6								
2222:30	-	-	-	94.6								
2230:00	-	-	-	94.6								
2237:30	-	-	-	94.6								
2245:00	-	-	-	94.6								

Table 6-195 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 11 & 12, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2252:30	-	-	-	94.6								
2300:00	-	-	-	94.6								
2307:30	-	-	-	94.6								
2315:00	-	-	-	94.6								
2322:30	-	-	-	94.6								
2330:00	-	-	-	94.6								
2337:30	-	-	-	94.6								
				November 12, 1971								
0007:30	-	-	-	94.6								
0015:00	-	-	-	94.6								
0022:30	-	-	-	94.6								
0030:00	-	-	-	94.6								
0037:30	-	-	-	94.6								
0045:00	-	-	-	94.6								
0052:30	-	-	-	94.6								
0100:00	-	-	-	94.6								
0800:00	-	-	-	94.6								
0807:30	-	-	-	89.9								
0815:00	-	-	-	94.58								
0822:30	-	-	-	94.58								
0900:00	-	-	-	94.58								
0907:30	-	-	-	101.3								
0915:00	-	-	-	101.3								
0922:30	-	-	-	101.3								
0930:00	-	-	-	101.3								

Table 6-196 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 12 & 13, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0930:00	-	-	-	101.3								
1000:00	-	-	-	101.3								
1007:30	-	-	-	104.4								
1100:00	-	-	-	104.4								
1107:30	-	-	-	110.1								
1115:00	-	-	-	110.1								
1122:30	-	-	-	110.1								
1130:00	-	-	-	117.7								
1137:30	-	-	-	117.7								
2400:00	-	-	-	117.70								
				November 13, 1971								
0007:30	-	-	-	104.4								
0800:00	-	-	-	104.4								
0807:30	-	-	-	110.1								
0815:00	-	-	-	117.7								
0900:00	-	-	-	117.7								
0907:30	-	-	-	123.7								
0915:00	-	-	-	123.7								
0922:30	-	-	-	127.6								
0930:00	-	-	-	133.6								
1015:00	-	-	-	133.6								
1022:30	-	-	-	141.7								
1600:00	-	-	-	141.7								
1607:30	-	-	-	127.7								
1615:00	-	-	-	127.7								

Table 6-197 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 13 & 14, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1830:00	-	-	-	127.7								
1837:30	-	-	-	123.7								
2000:00	-	-	-	123.7								
2007:30	-	-	-	117.7								
2400:00	-	-	-	117.7								
				November 14, 1971								
0007:30	-	-	-	110.1								
0700:00	-	-	-	110.1								
0707:30	-	-	-	117.7								
0800:00	-	-	-	117.7								
0807:30	-	-	-	123.7								
0815:00	-	-	-	123.7								
0822:30	-	-	-	123.7								
0830:00	-	-	-	123.7								
0837:30	-	-	-	123.7								
0845:00	-	-	-	127.7								
0852:30	-	-	-	127.7								
0900:00	-	-	-	133.6								
0907:30	-	-	-	133.6								
0915:00	-	-	-	133.6								
0922:30	-	-	-	133.6								
0930:00	-	-	-	133.6								
0937:30	-	-	-	133.6								
0945:00	-	-	-	141.7								
0952:30	-	-	-	141.7								

Table 6-198 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 14 & 15, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1000:00	-	-	-	141.7								
1007:30	-	-	-	141.7								
1030:00	-	-	-	141.7								
1037:30	-	-	-	141.7								
2000:00	-	-	-	141.7								
2007:30	-	-	-	141.7								
2015:00	-	-	-	133.6								
2030:00	-	-	-	133.6								
2037:30	-	-	-	127.7								
2400:00	-	-	-	127.7								
				November 15, 1971								
0007:30	-	-	-	127.7								
0015:00	-	-	-	127.7								
1000:00	-	-	-	127.7								
1007:30	-	-	-	133.6								
1045:00	-	-	-	133.6								
1052:30	-	-	-	141.7								
1152:30	-	-	-	141.7								
1200:00	-	-	-	133.6								
1500:00	-	-	-	133.6								
1507:30	-	-	-	127.7								
2400:00	-	-	-	127.7								

Table 6-199 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 16 & 17, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0007:30	-	-	-	127.7								
0900:00	-	-	-	127.7								
0907:30	-	-	-	133.6								
0930:00	-	-	-	133.6								
0937:30	-	-	-	133.6								
1700:00	-	-	-	133.6								
1707:30	-	-	-	127.7								
1900:00	-	-	-	127.7								
1907:30	-	-	-	123.7								
2130:00	-	-	-	123.7								
2137:30	-	-	-	117.7								
2400:00	-	-	-	117.7								
				November 17, 1971								
0007:30	-	-	-	117.7								
0900:00	-	-	-	117.7								
0907:30	-	-	-	123.7								
0122:30	-	-	-	123.7								
0930:00	-	-	-	133.6								
1100:00	-	-	-	133.6								
1107:30	-	-	-	127.7								
1145:00	-	-	-	127.7								
1152:30	-	-	-	123.7								
1730:00	-	-	-	123.7								
1737:30	-	-	-	127.7								
2200:00	-	-	-	127.7								

Table 6-200 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 17, 18 & 19, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2207:30	-	-	-	123.7								
2400:00	-	-	-	123.7								
				November 18, 1971								
0007:30	-	-	-	123.7								
0800:00	-	-	-	123.7								
0807:30	-	-	-	127.7								
0900:00	-	-	-	127.7								
0907:30	-	-	-	133.6								
0945:00	-	-	-	133.6								
0952:30	-	-	-	141.7								
1100:00	-	-	-	141.7								
1107:30	-	-	-	145.9								
1230:00	-	-	-	145.9								
1237:30	-	-	-	152.2								
2000:00	-	-	-	152.2								
2007:30	-	-	-	145.9								
2400:00	-	-	-	145.9								
				November 19, 1971								
0300:00	-	0.12	-	145.9		-	-	-	-	-	-	-
0307:30	-	0.12	-	145.9		292	117	221.5	481	8.4	40	-
0315:00	-	0.12	-	145.9		284	128	203.1	492	8.7	32	-
0322:30	-	0.0	-	145.9		231	112	115.9	716	7.9	21	-
0330:00	-	0.12	-	145.9		212	114	129.8	481	7.8	10	-
0337:30	-	0.12	-	145.9		167	112	116.8	412	7.8	34	-

Table 6-201 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 19, 20, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0345:00	0.024	0.0	0.12	145.9	-	184	107	98.5	389	7.4	11	-
0352:30	0.036	0.12	0.24	145.9	-	117	98	81.5	327	7.4	20	-
0400:00	0.48	0.0	0.6	145.9	-	108	96	68.4	317	7.4	16	-
0407:30	0.3	0.0	1.38	152.2	-	121	99	60.6	307	7.4	19	-
0415:00	0.0	0	0.03	152.2	-	-	-	-	-	-	-	-
0422:30	0.0	0	0.03	236.6	-	-	-	-	-	-	-	-
0430:00	0.12	0	0.12	380.9	-	-	-	-	-	-	-	-
0437:30	0.12	0	0.24	425.6	-	-	-	-	-	-	-	-
0445:00	0.12	0	0.30	397.9	-	-	-	-	-	-	-	-
0452:30	0.0	0	0.0	363.5	-	-	-	-	-	-	-	-
0500:00	0	0	0.0	330.2	-	-	-	-	-	-	-	-
0507:30	0	0	0.0	330.2	-	-	-	-	-	-	-	-
0515:00	0	0	0.0	297.9	-	-	-	-	-	-	-	-
0522:30	0	0	0.0	236.6	-	-	-	-	-	-	-	-
0530:00	0	0	0	208.7	-	-	-	-	-	-	-	-
0537:30	0	0	0	165.7	-	-	-	-	-	-	-	-
0545:00	0	0	0	158.2	-	-	-	-	-	-	-	-
0552:30	0	0	0	152.2	-	-	-	-	-	-	-	-
0600:00	0	0	0.12	145.9	-	-	-	-	-	-	-	-
0607:30	0	0	0.06	141.73	-	-	-	-	-	-	-	-
0615:00	0	0	0.06	141.73	-	-	-	-	-	-	-	-
				November 20, 1971								
0007:30	0	0	0	117.7								
2400:00	0	0	0	117.7								

Table 6-202 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Nov. 21, 22 & 23, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0007:30	-	-	-	110.1								
2400:00	-	-	-	110.1								
				November 22, 1971								
0007:30	-	-	-	104.4								
2400:00	-	-	-	104.4								
				November 23, 1971								
0007:30	-	-	-	104.4								
1000:00	-	-	-	104.4								
1007:30	-	-	-	123.7								
1330:00	-	-	-	123.7								
1337:30	-	-	-	141.7								
1900:00	-	-	-	141.7								
1907:30	-	-	-	152.2								
1952:30	-	-	-	152.2								
2000:00	-	-	-	178.1								
2330:00	-	-	-	178.1								
2337:30		-	-	186.0								
2345:00	-	-	-	194.0								
2352:30	-	-	-	194.0								
2400:00	-	-	-	194.0								

Table 6-203 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 24, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0007:30	-	-	-	208.7								
0215:00	-	-	-	208.7								
0222:30	-	-	-	194.0								
0230:00	-	-	-	178.1								
0307:30	-	-	-	178.1								
0315:00	-	-	-	208.7								
0322:30	-	-	-	215.2								
0330:00	-	-	-	215.2								
0337:30	-	-	-	221.7								
0345:00	-	-	-	330.2								
0352:30	-	-	-	208.7								
0400:00	-	-	-	346.9								
1200:00	0.12	-	-	346.9								
1207:30	0.12	-	-	346.9								
1215:00		-	-	346.9								
1222:30	0.12	-	-	346.9								
1230:00	-	-	-	346.9								
1237:30	-	-	-	313.8								
1245:00	-	-	-	251.5								
1252:30	-	-	-	251.5								
1300:00	-	-	-	236.6								
1307:30	-	-	-	236.6								
1330:00	-	-	-	236.6								
1337:30	-	-	-	208.7								
1345:00	-	-	-	178.1								
1352:30	-	-	-	194.0								

Table 6-204 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 24 & 25, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1400:00	-	-	-	221.7								
1407:30	-	-	-	239.4								
1415:00	-	-	-	236.6								
1422:30	-	-	-	236.6								
1430:00	-	-	-	236.6								
1437:30	-	-	-	236.6								
1445:00	-	-	-	236.6								
1452:30	-	-	-	236.6								
1500:00	-	-	-	236.6								
2000:00	-	-	-	236.6								
2007:30	-	-	-	239.4								
2100:00	-	-	-	229.4								
2107:30	-	-	-	221.7								
2400:00	-	-	-	221.7								
				November 25, 1971								
0007:30	-	-	-	221.7								
0700:00	-	-	-	221.7								
0707:30	-	-	-	236.7								
0900:00	-	-	-	236.7								
0907:30	-	-	-	251.5								
1400:00	-	-	-	251.5								
1407:30	-	-	-	244.0								
1530:00	-	-	-	244.0								
1537:30	-	-	-	236.6								
1800:00	-	-	-	236.6								

Table6-205 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 25 & 26, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1807:30	-	-	-	229.4								
2400:00	-	-	-	229.4								
				November 26, 1971								
0007:30	-	-	-	221.7								
0015:00	-	-	-	221.7								
0022:30	-	-	-	221.7								
0030:00	-	-	-	236.6								
0037:30	-	-	-	430.0								
0045:00	-	-	-	430.0								
0052:30	-	-	-	430.0								
0100:00	-	-	-	430.0								
0200:00	-	-	-	430.0								
0207:30	-	-	-	425.6								
0215:00	-	-	-	347.0								
0222:30	-	-	-	280.0								
0230:00	-	-	-	266.7								
0237:30	-	-	-	330.2								
0245:00	-	-	-	313.8								
0252:30	-	-	-	-298.0								
0300:00	-	-	-	280.0								
0307:30	-	-	-	313.8								
0315:00	-	-	-	313.8								
0322:30	-	-	-	280.0								
0330:00	-	-	-	280.0								
0337:30	-	-	-	280.0								

Table 6-206 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 26, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0345:00	-	-	-	280.0								
0352:30	-	-	-	280.0								
0400:00	-	-	-	280.0								
0407:30	-	-	-	280.0								
0415:00	-	-	-	280.0								
0422:30	-	-	-	233.5								
0430:00	-	-	-	233.5								
0437:30	-	-	-	233.5								
0445:00	-	-	-	280.0								
0452:30	-	-	-	280.0								
0500:00	-	-	-	280.0								
0815:00	-	-	-	280.0								
0822:30	-	-	-	313.8								
0830:00	-	-	-	363.5								
0837:30	-	-	-	380.9								
0845:00	-	-	-	347.0								
0852:30	-	-	-	363.5								
0900:00	-	-	-	363.5								
0907:30	-	-	-	363.5								
0915:00	-	-	-	363.5								
0922:30	-	-	-	347.0								
0930:00	-	-	-	330.2								
0937:30	-	-	-	313.8								
0945:00	-	-	-	330.2								
0952:30	-	-	-	330.2								
1000:00	-	-	-	347.0								
1007:30	-	-	-	458.6								

Table 6-207 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 26, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1015:00	-	-	-	458.6								
1022:30	-	-	-	458.6								
1030:00	-	-	-	458.6								
1037:30	-	-	-	458.6								
1045:00	-	-	-	458.6								
1052:30	-	-	-	398.0								
1100:00	-	-	-	363.5								
1107:30	-	-	-	330.2								
1115:00	-	-	-	313.8								
1122:30	-	-	-	266.7								
1130:00	-	-	-	236.6								
1137:30	-	-	-	236.6								
1145:00	-	-	-	236.6								
1152:30	-	-	-	236.6								
1200:00	-	-	-	236.6								
1207:30	-	-	-	236.6								
1215:00	-	-	-	236.6								
1222:30	-	-	-	236.6								
1230:00	-	-	-	208.7								
1237:30	-	-	-	165.7								
1245:00	-	-	-	127.7								
1400:00	-	-	-	123.7								
1407:30	-	-	-	117.7								
1500:00	-	-	-	117.7								
1507:30	-	-	-	104.4								
2215:00	-	-	-	104.4								

Table 6-208 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 26 & 27, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2222:30	-	-	-	104.4								
2230:00	-	-	-	104.4								
2237:30	-	-	-	104.4								
2245:00	-	-	-	104.4								
2252:30	-	-	-	104.4								
2300:00	0	0.0	0	104.4								
2307:30	0	0.06	0	104.4								
2315:00	0	0.0	0.12	104.4								
2322:30	0	0.06	0.06	104.4								
2330:00	0	0.06	0.024	104.4								
2337:30	0.06	0.06	0.018	127.68								
2345:00	0.09	0.06	0.018	127.68								
2352:30	0.24	0.09	0.06	127.68								
2400:00	0.0	0.0	0.06	127.68								
				November 27, 1971								
0007:30	0.018	0	0.012	127.7								
0015:00	0.06	0	0.012	127.7								
0022:30	0.06	0	0.012	127.7								
0030:00	0.06	0	0.024	127.7								
0037:30	0.06	0.06	0.024	127.7								
0045:00	0.06	0.0	0.024	127.7								
0052:30	0.03	0.06	0.015	127.7								
0100:00	0.036	0.06	0.036	127.7								
0107:30	0.036	0.09	0.036	127.7								
0115:00	0.048	0.0	0.048	127.7								

Table 6-209 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 27, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0122:30	0.060	0.0	0.048	127.7								
0130:00	0.048	0.0	0.024	127.7								
0137:30	0.048	0	0.012	127.7								
0145:00	0.024	0	0.012	127.7								
0152:30	0.06	0.06	0.012	127.7								
0200:00	0.036	0.12	0.012	127.7								
0207:30	0.042	0.12	0.012	127.7								
0215:00	0.0	0.12	0.012	127.7								
0222:30	0	0.0	0.024	127.7								
0230:00	0	0	0.012	127.7								
0237:30	0	0	0.012	127.7								
0245:00	0	0	0.012	127.7								
0252:30	0	0	0.18	127.7								
0300:00	0	0.12	0.06	127.7								
0307:30	0	0.18	0.012	127.7								
0315:00	0	0.12	0.012	127.7								
0322:30	0	0.0	0.012	127.7								
0330:00	0	0.12	0.012	127.7								
0337:30	0	0.12	0.06	127.7								
0345:00	0	0.0	0.12	127.7								
0352:30	0	0.24	0.12	127.7								
0400:00	0	0.0	0.12	127.7								
0407:30	0	0	0	127.7								
0645:00	0	0	0	127.7								
0652:30	0	0	0	141.7								
1545:00	0	0	0	141.7								

Table 6-210 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 27 & 28, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1552:30	-	-	-	133.6								
1600:00	-	-	-	141.73								
1607:30	-	-	-	152.2								
1800:00	-	-	-	152.2								
1807:30	-	-	-	158.8								
1815:00	-	-	-	165.7								
2137:30	-	-	-	165.7								
2145:00	-	-	-	178.1								
2152:30	-	-	-	186.1								
2200:00	-	-	-	194.0								
2400:00	-	-	-	194.0								
				November 28, 1971								
0007:30	-	-	-	194.0								
0015:00	-	-	-	178.1								
0200:00	-	-	-	178.1								
0207:30	-	-	-	186.0								
0230:00	-	-	-	186.0								
0237:30	-	-	-	194.0								
0245:00	-	-	-	194.0								
0252:30	-	-	-	194.0								
0300:00	-	-	-	194.0								
0307:30	-	-	-	200.6								
0315:00	-	-	-	200.6								
0322:30	-	-	-	200.6								
0330:00	-	-	-	208.7								

Table 6-211 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 28, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0337:30	-	-	-	208.7								
0345:00	-	-	-	208.7								
0352:30	-	-	-	208.7								
0730:00	-	-	-	208.7								
0737:30	-	-	-	215.2								
0745:00	-	-	-	215.2								
0752:30	-	-	-	221.7								
0800:00	-	-	-	221.7								
0807:30	-	-	-	221.7								
0815:00	-	-	-	229.2								
0822:30	-	-	-	236.6								
0830:00	-	-	-	236.6								
0837:30	-	-	-	236.6								
0845:00	-	-	-	236.6								
0852:30	-	-	-	244.1								
0900:00	-	-	-	244.1								
0907:30	-	-	-	244.1								
0915:00	-	-	-	251.5								
0922:30	-	-	-	251.5								
0930:00	-	-	-	259.2								
0937:30	-	-	-	259.2								
0945:00	-	-	-	259.2								
0952:30	-	-	-	259.2								
1000:00	-	-	-	259.2								
1007:30	-	-	-	259.2								
1015:00	-	-	-	266.70								

Table 6-212 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 28, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1022:30	-	-	-	266.70								
1030:00	-	-	-	266.70								
1037:30	-	-	-	266.70								
1045:00	-	-	-	273.3								
1052:30	-	-	-	273.3								
1100:00	-	-	-	273.3								
1107:30	-	-	-	280.0								
1115:00	-	-	-	280.0								
1122:30	-	-	-	280.0								
1130:00	-	-	-	288.5								
1137:30	-	-	-	288.9								
1145:00	-	-	-	297.9								
1152:30	-	-	-	297.9								
1200:00	-	-	-	297.9								
1222:30	-	-	-	297.9								
1230:00	-	-	-	306.0								
1252:30	-	-	-	306.0								
1300:00	-	-	-	313.8								
1600:00	-	-	-	313.8								
1607:30	-	-	-	313.8								
1615:00	-	-	-	306.0								
1622:30	-	-	-	306.0								
1630:00	-	-	-	297.9								
1637:30	-	-	-	297.9								
1645:00	-	-	-	288.9								
1652:30	-	-	-	288.9								

Table 6-213 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 28 & 29, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1700:00	-	-	-	280.0								
1722:30	-	-	-	280.0								
1730:00	-	-	-	273.3								
1800:00	-	-	-	273.3								
1807:30	-	-	-	266.7								
2100:00	-	-	-	266.7								
2107:30	-	-	-	259.2								
2200:00	-	-	-	259.2								
2207:30	-	-	-	251.5								
2400:00	-	-	-	251.5								
				November 29, 1971								
0007:30	0	0.0	0	251.5	-	-	-	-	-	-	-	-
0015:00	0	0.0	0	251.5	-	110	-	50.3	186	7.8	-	3400
0022:30	0	0	0	251.5	-	-	-	-	-	-	-	-
0030:00	0	0	0	251.5	-	115	86	49.4	152	7.7	-	3100
0037:30	0	0	0	251.5	-	176	86	54.1	157	7.7	-	3100
0045:00	0	0	0	251.5	-	184	91	62.1	216	7.7	-	2200
0052:30	0	0	0	251.5	-	192	103	64.6	271	7.5	-	2700
0100:00	0	0	0	251.5	-	217	107	64.6	284	7.9	-	2700
0107:30	0	0	0.192	251.5	-	210	110	54.4	250	8.1	-	2700
0115:00	0	0	0.18	251.5	-	209	104	43.4	211	8.0	-	2900
0122:30	0	0.30	0.21	251.5	-	205	101	35.6	220	8.0	-	2100
0130:00	0.24	0.24	0.12	251.5	-	208	100	39.1	210	8.0	-	2400
0137:30	0.18	0.30	0.24	251.5	-	222	92	32.6	190	7.6	-	2100
0145:00	0.3	0.24	0.24	251.5	-	216	98	31	190	7.5	-	1300

Table 6-214 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 29 & 30, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0152:30	0.16	0.06	0.12	251.5	-	194	76	25.4	190	7.7	-	1600
0200:00	0.18	0.0	0.06	251.5	-	188	99	-	116	7.7	-	2900
0207:30	0.15	0.12	0.15	251.5	-	210	103	28.5	184	7.8	-	2100
0215:00	0.12	0.12	0.12	251.5	-	271	171	25.4	117	7.9	-	2700
0222:30	0.12	0.24	0.24	251.5	-	107	90	22.9	112	7.8	-	1400
0230:00	0.12	0.12	0.06	251.5	-	118	76	21.4	110	7.8	-	1500
0237:30	0.12	0.12	0.09	251.5	-	118	72	19.8	92	7.8	-	1500
0245:00	0	0.0	0.06	251.5	-	127	71	21.3	90	7.6	-	1900
0252:30	0	0.06	0.03	251.5	-	109	86	23.9	90	7.8	-	2100
0300:00	0	0.12	0.0	251.5	-	184	95	26.9	80	7.7	-	3700
0307:30	0	0.06	0.0	251.5	-	-	-	-	-	-	-	-
0315:00	0	0.12	0.0	251.5	-	-	-	-	-	-	-	-
0322:30	0	0.0	0.0	251.5	-	-	-	-	-	-	-	-
				November 30, 1971								
0007:30	0	0	0	127.7								
1015:00	0	0	0	127.7								
1022:30	0	0	0	123.7								
1100:00	0	0	0	123.7								
1107:30	0	0	0	127.7								
1115:00	0	0	0	127.7								
1400:00	0	0	0	127.7								
1407:30	0	0	0	133.6								
1437:30	0	0	0	133.6								
1445:00	0	0	0	101.3								
1452:30	0	0	0	94.6								

Table 6-215 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: November 30 & Dec. 1, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1500:00	-	-	-	89.9								
1507:30	-	-	-	94.6								
1515:00	-	-	-	104.4								
1522:30	-	-	-	104.4								
1530:00	-	-	-	104.4								
1537:30	-	-	-	94.6								
1515:00	-	-	-	94.6								
1552:30	-	-	-	94.6								
1600:00	-	-	-	75.10								
1622:30	-	-	-	75.10								
1630:00	-	-	-	104.4								
1700:00	-	-	-	104.4								
1707:30	-	-	-	89.9								
1745:00	-	-	-	89.9								
1752:30	-	-	-	94.6								
2145:00	-	-	-	94.6								
2152:30	-	-	-	123.70								
2400:00	-	-	-	123.7								
				December 1, 1971								
0007:30	-	-	-	110.1								
0200:00	-	-	-	110.1								
0207:30	-	-	-	101.3								
0400:00	-	-	-	101.3								
0407:30	-	-	-	75.10								
0415:00	-	-	-	72.67								

Table 6-216 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 1, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0422:30	-	-	-	72.7								
0430:00	-	-	-	67.73								
0437:30	-	-	-	67.7								
0445:00	-	-	-	67.7								
0452:30	-	-	-	67.7								
0500:00	-	-	-	67.7								
0507:30	-	-	-	63.2								
0600:00	-	-	-	63.2								
0607:30	-	-	-	67.7								
0615:00	-	-	-	67.7								
0622:30	-	-	-	72.7								
0630:00	-	-	-	75.10								
0637:30	-	-	-	87.3								
0645:00	-	-	-	89.9								
0652:30	-	-	-	92.1								
0700:00	-	-	-	94.58								
0707:30	-	-	-	94.58								
0722:30	-	-	-	94.6								
0730:00	-	-	-	101.3								
0752:30	-	-	-	101.3								
0800:00	-	-	-	102.35								
0807:30	-	-	-	102.35								
0830:00	-	-	-	102.35								
0837:30	-	-	-	123.70								
0845:00	-	-	-	123.70								
0922:30	-	-	-	123.7								

Table 6-217 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 1, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0930:00	-	-	-	127.7								
0937:30	-	-	-	104.4								
0945:00	-	-	-	117.7								
0952:30	-	-	-	127.7								
1000:00	-	-	-	117.7								
1022:30	-	-	-	117.7								
1030:00	-	-	-	127.7								
1037:30	-	-	-	127.7								
1045:00	-	-	-	133.6								
1145:00	-	-	-	133.6								
1152:30	-	-	-	133.6								
1200:00	-	-	-	141.7								
2030:00	-	-	-	141.7								
2037:30	-	-	-	186.1								
2045:00	-	-	-	186.1								
2230:00	-	-	-	186.1								
2237:30	-	-	-	194.0								
2337:30	-	-	-	194.0								
2345:00	-	-	-	104.4								
2352:30	-	-	-	165.7								
2400:00	-	-	-	165.7								

Table 6-218 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 2, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0007:30	-	-	-	141.73								
0015:00	-	-	-	178.1								
0022:30	-	-	-	165.7								
0030:00	-	-	-	127.7								
0200:00	-	-	-	127.7								
0207:30	-	-	-	123.7								
0215:00	-	-	-	123.7								
0222:30	-	-	-	120.7								
0230:00	-	-	-	117.7								
0237:30	-	-	-	117.7								
0630:00	-	-	-	117.7								
0637:30	-	-	-	123.7								
0722:30	-	-	-	123.7								
0730:00	-	-	-	133.6								
0737:30	-	-	-	133.6								
0745:00	-	-	-	133.6								
0752:30	-	-	-	141.7								
0800:00	-	-	-	165.7								
0807:30	-	-	-	158.8								
0815:00	-	-	-	158.8								
0822:30	-	-	-	158.8								
0830:00	-	-	-	81.1								
0837:30	-	-	-	87.7								
0845:00	-	-	-	87.7								
0852:30	-	-	-	87.7								
0900:00	-	-	-	208.7								

Table 6-219 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 2, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0922:30	-	-	-	208.7								
0930:00	-	-	-	215.2								
0937:30	-	-	-	215.2								
0945:00	-	-	-	215.2								
0952:30	-	-	-	221.7								
1000:00	-	-	-	221.7								
1007:30	-	-	-	221.7								
1015:00	-	-	-	229.2								
1022:30	-	-	-	229.2								
1030:00	-	-	-	236.7								
1100:00	-	-	-	236.7								
1107:30	-	-	-	244.1								
1115:00	-	-	-	244.1								
1152:30	-	-	-	244.1								
1200:00	-	-	-	251.5								
1207:30	-	-	-	259.2								
1230:00	-	-	-	259.2								
1237:30	-	-	-	266.70								
1245:00	-	-	-	266.70								
1430:00	-	-	-	266.70								
1437:30	-	-	-	273.3								
1445:00	-	-	-	266.7								
1452:30	-	-	-	266.7								
1500:00	-	-	-	259.2								
1507:30	-	-	-	251.5								

Table 6-220 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 2 & 3, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1800:00	-	-	-	251.5								
1807:30	-	-	-	244.1								
2030:00	-	-	-	236.6								
2037:30	-	-	-	215.2								
2045:00	-	-	-	208.7								
2400:00	-	-	-	208.7								
				December 3, 1971								
0007:30	-	-	-	194.0								
0300:00	-	-	-	194.0								
0307:30	-	-	-	186.1								
0315:00	-	-	-	178.1								
0322:30	-	-	-	173.7								
0330:00	-	-	-	165.7								
0337:30	-	-	-	165.7								
0345:00	-	-	-	165.7								
0352:30	-	-	-	165.7								
0500:00	-	-	-	165.7								
0507:30	-	-	-	173.7								
0515:00	-	-	-	173.7								
0522:30	-	-	-	173.7								
0530:00	-	-	-	178.1								
0537:30	-	-	-	178.1								
0545:00	-	-	-	178.1								
0630:00	-	-	-	178.1								
0637:30	-	-	-	186.1								

Table 6-221 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 3, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0645:00	-	-	-	186.1								
0652:30	-	-	-	186.1								
0700:00	-	-	-	194.0								
0707:30	-	-	-	194.0								
0715:00	-	-	-	194.0								
0722:30	-	-	-	194.0								
0730:00	-	-	-	201.3								
0737:30	-	-	-	201.3								
0745:00	-	-	-	208.7								
0752:30	-	-	-	201.3								
0800:00	-	-	-	208.7								
0830:00	-	-	-	208.7								
0837:30	-	-	-	208.7								
1030:00	-	-	-	208.7								
1037:30	-	-	-	215.2								
1107:30	-	-	-	215.2								
1115:00	-	-	-	229.2								
1122:30	-	-	-	229.2								
1130:00	-	-	-	236.6								
1137:30	-	-	-	236.6								
1300:00	-	-	-	236.6								
1307:30	-	-	-	244.1								
1352:30	-	-	-	244.1								
1400:00	-	-	-	251.5								
1407:30	-	-	-	266.7								

Table 6-222 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 3 & 4, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1700:00	-	-	-	266.7								
1707:30	-	-	-	251.5								
2400:00	-	-	-	251.5								
				December 4, 1971								
0007:30	-	-	-	251.5								
0230:00	-	-	-	251.5								
0237:30	-	-	-	236.6								
0245:00	-	-	-	208.70								
0252:30	-	-	-	229.2								
0300:00	-	-	-	194.0								
0307:30	-	-	-	194.0								
0315:00	-	-	-	186.1								
0322:30	-	-	-	186.1								
0330:00	-	-	-	178.1								
0337:30	-	-	-	178.1								
0345:00	-	-	-	173.7								
0352:30	-	-	-	173.7								
0400:00	-	-	-	173.7								
0407:30	-	-	-	165.7								
0600:00	-	-	-	165.7								
0607:30	-	-	-	152.2								
0707:30	-	-	-	152.2								
0715:00	-	-	-	194.0								
0722:30	-	-	-	208.7								
0730:00	-	-	-	215.2								

Table6-223 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 4, & 5, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0737:30	-	-	-	215.2								
0745:00	-	-	-	221.7								
0752:30	-	-	-	221.7								
0800:00	-	-	-	229.2								
0807:30	-	-	-	229.2								
0815:00	-	-	-	236.6								
0822:30	-	-	-	236.6								
0830:00	-	-	-	251.5								
0837:30	-	-	-	251.5								
0845:00	-	-	-	251.5								
0852:30	-	-	-	259.2								
0922:30	-	-	-	259.2								
0930:00	-	-	-	266.70								
0937:30	-	-	-	273.3								
1130:00	-	-	-	273.3								
1137:30	-	-	-	280.0								
1800:00	-	-	-	280.0								
1807:30	-	-	-	273.3								
2000:00	-	-	-	273.3								
2007:30	-	-	-	266.7								
2400:00	-	-	-	266.7								
				December 5, 1971								
0007:30	-	-	-	266.7								
0015:00	-	-	-	266.7								
0022:30	-	-	-	266.7								

Table 6-224 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 5, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0030:00	-	-	-	266.7								
0037:30	-	-	-	259.2								
0045:00	-	-	-	251.5								
0200:00	-	-	-	251.5								
0207:30	-	-	-	251.5								
0215:00	-	-	-	215.2								
0222:30	-	-	-	208.7								
0230:00	-	-	-	201.4								
0237:30	-	-	-	208.7								
0245:00	-	-	-	201.3								
0252:30	-	-	-	208.7								
0300:00	-	-	-	201.3								
0307:30	-	-	-	201.3								
0315:00	-	-	-	194.0								
0322:30	-	-	-	186.0								
0330:00	-	-	-	165.7								
0337:30	-	-	-	152.2								
0345:00	-	-	-	141.7								
0352:30	-	-	-	141.7								
0400:00	-	-	-	133.6								
0407:30	-	-	-	133.6								
0415:00	-	-	-	127.7								
0422:30	-	-	-	127.7								
0430:00	-	-	-	127.7								
0437:30	-	-	-	123.7								
0445:00	-	-	-	123.7								

Table 6-225 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 5, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0452:30	-	-	-	123.7								
0500:00	-	-	-	123.7								
0507:30	-	-	-	117.7								
0515:00	-	-	-	117.7								
0522:30	-	-	-	110.1								
0530:00	-	-	-	104.4								
0537:30	-	-	-	104.4								
0545:00	-	-	-	101.3								
0552:30	-	-	-	94.6								
0600:00	-	-	-	94.6								
0607:30	-	-	-	89.9								
0615:00	-	-	-	87.3								
0622:30	-	-	-	87.3								
0630:00	-	-	-	81.1								
0637:30	-	-	-	87.3								
0645:00	-	-	-	87.3								
0652:30	-	-	-	104.4								
0700:00	-	-	-	178.1								
0707:30	-	-	-	208.7								
0715:00	-	-	-	208.7								
0722:30	-	-	-	215.2								
0730:00	-	-	-	215.2								
0737:30	-	-	-	221.7								
0745:00	-	-	-	229.2								
0752:30	-	-	-	229.2								
0800:00	-	-	-	221.7								

Table 6-226 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 5, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0807:30	-	-	-	215.2								
0815:00	-	-	-	215.2								
0822:30	-	-	-	215.2								
0830:00	-	-	-	236.6								
0837:30	-	-	-	244.1								
0845:00	-	-	-	251.5								
0852:30	-	-	-	251.5								
0900:00	-	-	-	259.2								
0907:30	-	-	-	266.7								
0915:00	-	-	-	266.7								
0922:30	-	-	-	273.3								
0930:00	-	-	-	280.0								
0937:30	-	-	-	280.0								
0945:00	-	-	-	280.0								
0952:30	-	-	-	288.8								
1000:00	-	-	-	288.8								
1022:30	-	-	-	288.8								
1030:00	-	-	-	305.5								
1037:30	-	-	-	305.5								
1045:00	-	-	-	305.5								
1052:30	-	-	-	306.0								
1100:00	-	-	-	306.0								
1122:30	-	-	-	306.0								
1130:00	-	-	-	313.8								
1530:00	-	-	-	313.8								
1537:30	-	-	-	322.0								

Table 6-227 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 5, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1545:00	-	-	-	322.0								
1552:30	-	-	-	322.0								
1600:00	0.06	-	-	322.0								
1607:30	0.06	-	-	330.2								
1615:00	0.06	-	-	330.2								
1622:30	0.06	-	-	330.2								
1630:00	0.06	-	-	330.2								
1637:30	0.06	-	-	330.2								
1645:00	0.06	0.12	0.144	330.2								
1707:30	0	0.06	0.048	322.0								
1715:00	0	0.0	0.048	313.8								
1722:30	0	0.0	0.042	380.9								
1730:00	0	0.06	0.060	380.9								
1737:30	0	0.0	0.060	380.9								
1745:00	0	0.06	0.024	372.2								
1752:30	0	0.03	0.018	363.5								
1800:00	0.024	0.06	0.012	346.9								
1807:30	0.024	0.0	0.036	346.9								
1815:00	0.024	0.0	0.036	346.9								
1822:30	0.048	0.03	0.024	346.9								
1830:00	0.06	0.0	0.024	346.9								
1837:30	0.06	-	0.024	346.9								
1845:00	0.06	-	0.024	346.9								
1852:30	0.06	-	0.024	346.9								
1900:00	0.0	-	0.048	346.9								
1907:30	-	-	0.012	346.9								

Table 6-228 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 5, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1915:00	-	-	0.94	346.9								
1922:30	-	-	0.024	346.9								
1930:00	-	0.06	0.024	346.9								
1937:30	-	0.03	0.024	346.9								
1945:00	-	0.06	0.024	346.9								
1952:30	-	0.03	0.024	346.9								
2000:00	-	0.0	0.024	346.9								
2007:30	-	-	0.0	346.9								
2015:00	-	-	0	346.9								
2022:30	-	-	0	346.9								
2030:00	-	-	0	346.9								
2037:30	-	-	0	346.9								
2045:00	-	-	0	346.9								
2052:30	-	-	0	346.9								
2100:00	-	-	0	346.9								
2107:30	-	-	0	346.9								
2115:00	-	-	0	346.9								
2122:30	-	-	0	346.9								
2130:00	-	0.12	0	346.9								
2137:30	-	0	0	346.9								
2145:00	-	0.12	0	346.9								
2152:30	-	0.09	0	346.9								
2200:00	-	0.06	0	346.9								
2207:30	-	0.0	0	346.9								
2215:00	-	-	0	346.9								
2222:30	-	-	0	346.9								

Table 6-229 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 5 & 6, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2230:00	-	-	-	346.9								
2237:30	-	-	-	363.5								
2245:00	-	-	-	363.5								
2252:30	-	-	-	355.2								
2300:00	0.036	-	0.12	355.2								
2307:30	0.042	-	0.06	363.5								
2315:00	0.06	0.12	0.06	380.9								
2322:30	0.06	0.06	0.06	398.0								
2330:00	0.06	0.06	0.06	398.0								
2337:30	0.024	0.09	0.06	380.9								
2345:00	0.024	0.12	0.12	380.9								
2352:30	0.024	0.03	0.09	380.9								
2400:00	0.0	0.0	0.06	380.9								
				December 6, 1971								
0007:30	0.12	0.15	0.12	380.9								
0015:00	0.12	0.24	0.06	380.9								
0022:30	0.06	0.0	0.03	458.6								
0030:00	0.06	0.06	0.06	470.8								
0037:30	0.09	0.15	0.12	470.8								
0045:00	0.12	0.12	0.06	470.8								
0052:30	0.12	0.09	0.12	470.8								
0100:00	0.12	0.21	0.06	470.8								
0107:30	0.12	0.12	0.09	470.8								
0115:00	0.12	0.18	0.12	470.8								
0122:30	0.12	0.18	0.12	433.4								

Table 6-230 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0130:00	0.12	0.06	0.06	397.9								
0137:30	0.09	0.09	0.09	397.9								
0145:00	0.06	0.12	0.12	363.5								
0152:00	0.06	0.15	0.12	363.5								
0200:00	0.024	0.12	0.12	363.5								
0207:30	0.048	0.09	0.06	380.9								
0215:00	0.042	0.06	0.12	397.9								
0222:30	0.030	0.0	0.15	397.9								
0230:00	0.050	0.09	0.18	397.9								
0237:30	0.06	0.06	0.06	397.9								
0245:00	0.06	0.0	0.06	380.9								
0252:30	0.06	0.12	0.06	363.5								
0300:00	0.036	0.12	0.06	347.0								
0307:30	0.030	0.09	0.06	297.9								
0315:00	0.024	0.06	0.024	297.9								
0322:30	0.036	-	0.036	297.9								
0330:00	0.036	-	0.0	297.9								
0337:30	0.066	-	0	297.9								
0345:00	0.096	-	0	297.9								
0352:30	0.080	-	0	297.9								
0400:00	0.0	-	0	297.9								
0407:30	-	-	0	305.0								
0415:00	-	0.06	0	347.0								
0422:30	-	0.0	0	470.8								
0430:00	-	0.0	0.06	470.8								
0437:30	0.06	0.06	0.09	470.8								

Table 6-231 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0445:00	0.12	0.06	0.12	470.8								
0452:30	0.12	0.09	0.12	470.8								
0500:00	0.12	0.0	0.30	470.8								
0507:30	0.12	0.0	0.12	470.8								
0515:00	0.12	0.30	0.18	470.8								
0522:30	0.12	0.33	0.12	433.4								
0530:00	0.12	0.24	0.06	429.4								
0537:30	0.12	0.06	0.12	429.4								
0545:00	0.12	0.12	0.12	429.4								
0552:30	0.12	0.18	0.12	483.8								
0600:00	0.24	0.0	0.12	483.8								
0607:30	0.12	0.18	0	496.2								
0615:00	0	0.24	0	483.8								
0622:30	0	0	0	483.8								
0630:00	0.18	0	0	483.8								
0637:30	0.20	0	0.12	483.8								
0645:00	0.12	0	0.24	496.2								
0652:30	0.12	0.42	0.42	502.3								
0700:00	0.12	0.24	0.072	508.5								
0707:30	0	0.06	0.054	508.5								
0715:00	0	0.12	0.036	508.5								
0722:30	0.12	0.0	0.132	508.5								
0730:00	0.12	0.12	0.12	508.5								
0737:30	0.06	0.18	0.06	496.2								
0745:00	0.06	0.0	0.12	502.3								
0752:30	0.03	0.15	0.12	483.8								

Table 6-232 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0800:00	0.0	0.06	0.12	458.6								
0807:30	0.12	0.06	0.024	433.7								
0815:00	0	0.12	0.024	397.9								
0822:30	0	0.06	0.024	363.5								
0830:00	0.12	0.0	0.024	347.0								
0837:30	0.12	0.06	0.024	347.0								
0845:00	0	0.24	0.024	347.0								
0852:30	0	0.03	0.042	347.0								
0900:00	0.06	0	0.06	347.0								
0907:30	0.06	0	0.072	347.0								
0915:00	0	0	0.036	347.0								
0922:30	0	0.03	-	347.0								
0930:00	0	0	-	347.0								
0937:30	0	0	-	347.0								
0945:00	0	0	-	347.0								
0952:30	0	0	-	347.0								
1000:00	0.06	0	0.036	347.0								
1007:30	0.06	0	0.066	347.0								
1015:00	0.06	0	0.036	347.0								
1022:30	0.09	0	0.036	347.0								
1030:00	0.0	0.12	0.048	347.0								
1037:30	0	0.0	0.012	380.9								
1045:00	0	0.12	-	380.9								
1052:30	0	0.09	-	380.9								
1100:00	0	0.0	-	380.9								
1107:30	0	0.09	-	322.0								

Table 6-233 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1115:00	0	0	0	322.0								
1122:30	0	0	0	322.0								
1130:00	0	0	0	322.0								
1137:30	0	0	0	322.0								
1145:00	0	0	0	330.2								
1152:30	0	0	0	433.4								
1200:00	0	0	0	425.6								
1207:30	0	0	0	425.6								
1215:00	0	0	0	425.6								
1222:30	0	0	0	430.5								
1230:00	0	0.06	0	430.5								
1237:30	0	0.03	0	433.4								
1245:00	0	0.12	0	433.4								
1252:30	0	0.03	0	458.6								
1300:00	0.06	0.06	0.024	458.6								
1307:30	0.048	0.06	0.036	458.6								
1315:00	0.084	0.0	0.024	458.6								
1322:30	0.12	0.0	0.054	458.6								
1330:00	0.024	0.12	0.036	470.8								
1337:30	0.036	0.0	0.048	470.8								
1345:00	0.024	0.0	0.06	483.8								
1352:30	0.06	0.12	0.09	483.8								
1400:00	0.12	0.06	0.12	502.3								
1407:30	0.12	0.12	0.06	502.3								
1415:00	0.024	0.06	0.12	496.2								
1422:30	0.048	0.0	0.12	496.2								

Table 6-234 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1430:00	0.0	0.12	0.0	496.2								
1445:00	0.0	0.09	0.0	496.2								
1452:30	0.0	0.06	0.0	496.2								
1500:00	0.0	0.0	0.0	496.2								
1507:30	0.0	0.0	0.0	496.2								
1515:00	0.0	0.0	0.0	496.2								
1522:30	0.0	0.0	0.0	496.2								
1530:00	0.0	0.0	0.0	502.3								
1537:30	0.0	0.0	0.0	483.8								
1545:00	0.0	0.24	0.0	433.8								
1552:30	0.0	0.0	0.0	425.6								
1600:00	0.0	0.0	0.0	458.6								
1607:30	0.0	0.0	0.0	458.6								
1615:00	0.0	0.0	0.0	502.3								
1622:30	0.0	0.0	0.0	502.3								
1630:00	0.0	0.12	0.0	458.6								
1637:30	0.0	0.0	0.0	446.0								
1645:00	0.0	0.0	0.0	433.4								
1652:30	0.0	0.0	0.0	433.4								
1700:00	0.0	0.0	0.0	433.4								
1707:30	0.0	0.0	0.0	433.4								
1715:00	0.0	0.0	0.0	433.4								
1722:30	0.0	0.0	0.12	433.4								
1730:00	0.0	0.0	0.12	433.4								
1737:30	0.0	0.0	0.0	425.6								
1745:00	0.0	0.0	0.0	397.9								

Table 6-235 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1752:30	0.0	0.0	0.0	397.9								
1800:00	0.0	0.0	0.0	397.9								
1807:30	0.0	0.0	0.0	397.9								
1815:00	0.0	0.0	0.0	397.9								
1822:30	0.0	0.0	0.0	380.9								
1830:00	0.0	0.0	0.0	363.5								
1837:30	0.0	0.0	0.0	347.0								
1845:00	0.0	0.0	0.0	347.0								
1852:30	0.0	0.0	0.0	297.9								
1900:00	0.0	0.0	0.0	297.9								
1907:30	0.0	0.0	0.0	297.9								
1915:00	0.0	0.0	0.0	297.9								
1922:30	0.0	0.0	0.0	297.9								
1930:00	0.0	0.0	0.0	297.9								
1937:30	0.0	0.0	0.0	297.9								
1945:00	0.0	0.0	0.0	297.9								
1952:30	0.0	0.0	0.0	297.9								
2000:00	0.0	0.0	0.0	297.9								
2007:30	0.0	0.0	0.0	297.9								
2015:00	0.0	0.0	0.0	297.9								
2022:30	0.0	0.0	0.0	297.9								
2030:00	0.0	0.24	0.0	297.9								
2037:30	0.0	0.12	0.0	297.9								
2045:00	0.0	0.0	0.0	297.9								
2052:30	0.0	0.0	0.0	297.9								
2100:00	0.06	0.0	0.12	297.9								

Table 6-236 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 6, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2107:30	0.06	0.0	0.06	306.0								
2115:00	0.06	0.0	0.06	313.8								
2122:30	0.06	0.0	0.06	313.8								
2130:00	0.06	0.0	0.0	313.8								
2137:30	0.06	0.0	0.0	313.8								
2145:00	0.06	0.0	0.0	313.8								
2152:30	0.0	0.0	0.0	313.8								
2200:00	0.0	0.12	0.0	313.8								
2207:30	0.0	0.0	0.0	313.8								
2215:00	0.0	0.0	0.0	313.8								
2222:30	0.0	0.0	0.0	313.8								
2230:00	0.0	0.0	0.0	313.8								
2237:30	0.0	0.0	0.0	313.8								
2245:00	0.0	0.0	0.0	313.8								
2252:30	0.0	0.0	0.0	313.8								
2300:00	0.0	0.0	0.0	313.8								
2307:30	0.0	0.0	0.0	313.8								
2315:00	0.0	0.0	0.0	313.8								
2322:30	0.0	0.0	0.0	313.8								
2330:00	0.0	0.0	0.0	313.8								
2337:30	0.0	0.0	0.0	313.8								
2345:00	0.0	0.0	0.0	313.8								
2352:30	0.0	0.0	0.0	313.8								
2400:00	0.0	0.0	0.0	313.8								

Table 6-237 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw' Gage	Woodward Gage	Ridge Gage									
0007:30	0.0	0.0	0.0	313.8								
0015:00	0.0	0.0	0.0	313.8								
0022:30	0.0	0.0	0.0	313.8								
0030:00	0.0	0.0	0.0	313.8								
0037:30	0.0	0.0	0.0	313.8								
0045:00	0.0	0.0	0.0	313.8								
0052:30	0.0	0.0	0.0	313.8								
0100:00	0.0	0.0	0.0	313.8								
0107:30	0.0	0.0	0.0	313.8								
0115:00	0.0	0.0	0.0	313.8								
0122:30	0.0	0.0	0.0	313.8								
0130:00	0.036	0.0	0.0	313.8								
0137:30	0.054	0.0	0.0	313.8								
0145:00	0.072	0.24	0.048	313.8								
0152:30	0.042	0.06	0.048	313.8								
0200:00	0.06	0.12	0.06	313.8								
0207:30	0.042	0.06	0.048	330.2								
0215:00	0.036	0.0	0.06	347.0								
0222:30	0.06	0.0	0.12	339.0								
0230:00	0.0	0.0	0.0	339.0								
0237:30	0.0	0.0	0.0	330.2								
0245:00	0.0	0.0	0.0	330.2								
0252:30	0.0	0.0	0.0	330.2								
0300:00	0.0	0.12	0.0	330.2								
0307:30	0.0	0.0	0.0	347.0								
0315:00	0.0	0.0	0.12	347.0								

Table 6-238 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0322:30	0.12	0.0	0.12	363.5								
0330:00	0.12	0.12	0.12	363.5								
0337:30	0.12	0.12	0.06	363.5								
0345:00	0.0	0.12	0.0	363.5								
0352:30	0.0	0.15	0.0	398.0								
0400:00	0.0	0.0	0.0	425.6								
0407:30	0.0	0.0	0.0	425.6								
0415:00	0.0	0.0	0.0	425.6								
0422:30	0.0	0.0	0.0	380.9								
0430:00	0.0	0.0	0.0	363.50								
0437:30	0.12	0.0	0.0	363.5								
0445:00	0.12	0.0	0.0	313.8								
0452:30	0.12	0.0	0.0	280.0								
0500:00	0.12	0.30	0.0	280.0								
0507:30	0.0	0.0	0.0	280.0								
0515:00	0.0	0.0	0.0	280.0								
0522:30	0.0	0.0	0.0	280.0								
0530:00	0.0	0.0	0.0	280.0								
0537:30	0.0	0.0	0.0	280.0								
0545:00	0.0	0.0	0.0	280.0								
0552:30	0.0	0.0	0.0	280.0								
0600:00	0.0	0.0	0.24	280.0								
0607:30	0.12	0.0	0.24	280.0								
0615:00	0.18	0.0	0.24	280.0								
0622:30	0.18	0.18	0.24	280.0								

Table6-239 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0630:00	0.12	0.24	0.24	280.0								
0637:30	0.0	0.0	0.036	398.0								
0645:00	0.0	0.0	0.048	496.2								
1015:00	0.0	0.12	0.0	330.2								
1022:30	0.0	0.0	0.0	330.2								
1030:00	0.0	0.0	0.0	330.2								
1037:30	0.0	0.0	0.0	330.2								
1045:00	0.0	0.0	0.0	330.2								
1052:30	0.0	0.0	0.0	330.2								
1100:00	0.0	0.0	0.0	330.2								
1107:30	0.0	0.0	0.0	330.2								
1115:00	0.0	0.0	0.0	330.2								
1122:30	0.0	0.0	0.0	330.2								
1130:00	0.0	0.0	0.24	339.0								
1137:30	0.0	0.18	0.24	339.0								
1145:00	0.0	0.12	0.0	339.0								
1152:30	0.0	0.0	0.0	339.0								
1200:00	0.0	0.0	0.0	339.0								
1207:30	0.0	0.0	0.0	347.0								
1215:00	0.0	0.0	0.0	347.0								
1222:30	0.0	0.0	0.0	347.0								
1230:00	0.0	0.0	0.0	347.0								
1237:30	0.0	0.0	0.0	347.0								
1245:00	0.0	0.0	0.0	347.0								
1252:30	0.0	0.0	0.0	347.0								
1300:00	0.0	0.0	0.0	347.0								

Table6-240 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1307:30	0.0	0.0	0.0	347.0								
1315:00	0.0	0.0	0.0	347.0								
1322:30	0.0	0.0	0.0	347.0								
1330:00	0.0	0.0	0.0	347.0								
1337:30	0.0	0.0	0.0	347.0								
1345:00	0.0	0.0	0.0	347.0								
1352:30	0.0	0.0	0.0	313.8								
1400:00	0.0	0.0	0.0	313.8								
1407:30	0.0	0.0	0.0	313.8								
1415:00	0.0	0.0	0.0	313.8								
1422:30	0.0	0.0	0.0	313.8								
1430:00	0.0	0.0	0.0	313.8								
1437:30	0.0	0.0	0.0	313.8								
1445:00	0.0	0.0	0.0	313.8								
1452:30	0.0	0.0	0.0	313.8								
1500:00	0.0	0.0	0.0	313.8								
1507:30	0.0	0.0	0.0	313.8								
1515:00	0.0	0.0	0.0	313.8								
1522:30	0.0	0.0	0.0	313.8								
1530:00	0.0	0.0	0.0	313.8								
1537:30	0.0	0.0	0.0	313.8								
1545:00	0.0	0.0	0.0	313.8								
1552:30	0.0	0.0	0.0	313.8								
1600:00	0.0	0.12	0.0	313.8								
1607:30	0.0	0.0	0.0	313.8								
1615:00	0.0	0.0	0.0	330.2								

Table 6-241 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1622:30	0.0	0.0	0.0	178.1								
1630:00	0.0	0.0	0.0	165.7								
1637:30	0.0	0.0	0.0	165.7								
1645:00	0.0	0.0	0.0	165.7								
1652:30	0.0	0.0	0.0	165.7								
1700:00	0.0	0.0	0.0	165.7								
1707:30	0.0	0.0	0.0	165.7								
1715:00	0.0	0.0	0.0	165.7								
1722:30	0.0	0.0	0.0	165.7								
1730:00	0.0	0.0	0.0	165.7								
1737:30	0.0	0.0	0.0	165.7								
1745:00	0.0	0.0	0.0	165.7								
1752:30	0.0	0.0	0.0	165.7								
1800:00	0.0	0.0	0.0	165.7								
1807:30	0.0	0.0	0.0	165.7								
1815:00	0.0	0.0	0.0	194.0								
1822:30	0.0	0.0	0.0	194.0								
1830:00	0.0	0.0	0.0	194.0								
1837:30	0.0	0.0	0.0	194.0								
1845:00	0.0	0.0	0.0	194.0								
1852:30	0.0	0.0	0.0	194.0								
1900:00	0.0	0.12	0.0	194.0								
1907:30	0.0	0.06	0.0	194.0								
1915:00	0.0	0.0	0.0	194.0								
1922:30	0.0	0.0	0.0	194.0								
1930:00	0.0	0.12	0.0	194.0								

Table 6-242 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 7, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1937:30	0.0	0.03	0.0	194.0								
1945:00	0.0	0.06	0.0	194.0								
1952:30	0.0	0.06	0.0	194.0								
2000:00	0.0	0.0	0.0	194.0								
2007:30	0.0	0.0	0.0	194.0								
2015:00	0.0	0.0	0.0	194.0								
2022:30	0.0	0.0	0.0	178.1								
2030:00	0.0	0.0	0.0	165.7								
2037:30	0.0	0.0	0.0	165.7								
2045:00	0.0	0.0	0.0	165.7								
2052:30	0.0	0.0	0.0	165.7								
2100:00	0.0	0.0	0.0	165.7								
2107:30	0.0	0.0	0.0	165.7								
2115:00	0.0	0.0	0.0	165.7								
2122:30	0.0	0.0	0.0	165.7								
2130:00	0.0	0.0	0.0	165.7								
2137:30	0.0	0.0	0.0	158.8								
2145:00	0.0	0.0	0.0	117.73								
2152:30	0.0	0.0	0.0	94.58								
2200:00	0.0	0.0	0.0	75.1								
2207:30	0.0	0.0	0.0	75.10								
2400:00	0.0	0.0	0.0	75.10								

Table 6-243 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 8, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0007:30	0	0	0	75.10								
0600:00	0	0	0	75.10								
0607:30	0	0	0	81.1								
0630:00	0	0	0	81.1								
0637:30	0	0	0	87.30								
0645:00	0	0	0	87.30								
0652:30	0	0	0	87.30								
0700:00	0	0	0	89.9								
0707:30	0	0	0	94.6								
0715:00	0	0	0	94.6								
0722:30	0	0	0	94.6								
0730:00	0	0	0	101.3								
0737:30	0	0	0	101.3								
0745:00	0	0	0	101.3								
0752:30	0	0	0	101.3								
0800:00	0	0	0	104.4								
1300:00	0	0	0	104.4								
1307:30	0	0	0	117.7								
2100:00	0	0	0	117.7								
2107:30	0	0	0	110.1								
2115:00	0	0	0	117.7								
2122:30	0	0	0	123.7								
2130:00	0	0	0	127.7								
2137:30	0	0	0	123.7								
2145:00	0	0	0	117.7								

Table 6-244 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 8 & 9, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2152:30	0	0	0	117.7								
2200:00	0	0	0	104.4								
2245:00	0	0	0	104.4								
2252:30	0	0	0	87.3								
2300:00	0	0	0	81.1								
2400:00	0	0	0	81.1								
				December 9, 1971								
0007:30	0	0	0	81.1								
0530:00	0	0	0	81.1								
0537:30	0	0	0	87.3								
0600:00	0	0	0	87.3								
0607:30	0	0	0	87.3								
0615:00	0	0	0	89.9								
0622:30	0	0	0	94.6								
0630:00	0	0	0	94.6								
0637:30	0	0	0	117.7								
0645:00	0	0	0	117.7								
0652:30	0	0	0	123.7								
0700:00	0	0	0	104.4								
0707:30	0	0	0	104.4								
0730:00	0	0	0	104.4								
0737:30	0	0	0	110.1								
0745:00	0	0	0	110.1								
0752:30	0	0	0	110.1								
0800:00	0	0	0	94.6								

Table 6-245 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 9 & 10, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1945:00	0	0	0	94.6								
				December 10, 1971								
1237:30	0	0	0	67.7								
1245:00	0	0	0	87.3								
1252:30	0	0	0	397.9								
1300:00	0	0	0	363.5								
1307:30	0	0	0	347.0								
1315:00	0	0	0	313.8								
1322:30	0	0	0	208.7								
1330:00	0	0	0	165.7								
1337:30	0	0	0	165.7								
1345:00	0	0	0	104.4								
1352:30	0	0	0	87.3								
1400:00	0	0	0	104.4								
1407:30	0	0	0	104.4								
1630:00	0	0	0	104.4								
1637:30	0	0	0	94.6								
1645:00	0	0	0	101.3								
1652:30	0	0	0	87.3								
1700:00	0	0	0	75.1								
1707:30	0	0	0	75.1								
2400:00	0	0	0	75.10								

Table6-246 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0007:30	-	-	-	75.10								
0600:00	-	-	-	75.10								
0607:30	-	-	-	81.1								
0622:30	-	-	-	87.30								
0630:00	-	-	-	87.30								
0700:00	-	-	-	87.3								
0707:30	-	-	-	89.9								
0715:00	-	-	-	89.9								
0722:30	-	-	-	94.6								
0730:00	-	-	-	94.6								
0737:30	-	-	-	94.6								
0745:00	-	-	-	127.7								
0752:30	-	-	-	123.7								
0837:30	-	-	-	123.7								
0845:00	-	-	-	152.2								
0852:30	-	-	-	165.7								
0900:00	-	-	-	152.2								
0907:30	-	-	-	152.2								
0915:00	-	-	-	145.9								
0922:30	-	-	-	145.9								
0930:00	-	-	-	141.7								
0937:30	-	-	-	141.7								
0945:00	-	-	-	141.7								
0952:30	-	-	-	141.7								
1000:00	-	-	-	141.7								
1007:30	-	-	-	133.6								

Table 6-247 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11, 1971 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1015:00	0	0	0	133.6								
1022:30	0	0	0	127.7								
1030:00	0	0	0	127.7								
1037:30	0	0	0	127.7								
1045:00	0	0	0	127.7								
1052:30	0	0	0	127.7								
1100:00	0	0	0	127.7								
1107:30	0	0	0	123.7								
1115:00	0	0	0	117.7								
1122:30	0	0	0	117.7								
1130:00	0	0	0	110.1								
1137:30	0	0	0	104.4								
1145:00	0	0	0	104.4								
1152:30	0	0	0	101.3								
1200:00	0	0	0	94.6								
1430:00	0	0	0	94.6								
1437:30	0	0	0	94.6								
1445:00	0	0	0	87.3								
1452:30	0	0	0	104.4								
1500:00	0	0	0	104.4								
1507:30	0	0	0	94.6								
1530:00	0	0	0	94.6								
1537:30	0	0	0	89.9								
1545:00	0	0	0	87.3								
2100:00	0	0	0	87.30								
2107:30	0	0	0	81.1								

Table 6-248- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 11 & 30, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2115:00	0	0	0	75.1								
2130:00	0	0	0	67.7								
				December 30, 1971								
0400:00	0	0.12	0	0	486	184	149	100.9	1242	0	0	6000
0407:30	0	0.0	0	0	512	176	151	100.9	126	0	0	8000
0415:00	0	0.12	0	0	628	196	127	113.8	128	0	0	18000
0422:30	0	0.03	0	0	672	184	107	112.2	129	0	0	21000
0430:00	0	0.0	0	0	684	196	150	109.7	116	0	0	9000
0437:30	0	0.0	0	0	724	244	171	106.5	124	0	0	7000
0445:00	0	0.06	0	0	729	322	194	103.4	116	0	0	8000
0452:30	0	0.03	0	0	781	376	207	106.5	118	0	0	7000
0500:00	0	0.60	0	0	792	349	231	100.9	124	0	0	7000
0507:30	0	0.45	0	0	842	331	249	100.9	126	0	0	6200
0515:00	0	0.60	0	0	871	371	251	100.9	124	0	0	2400
0522:30	0	0.72	0	0	855	307	180	95.2	127	0	0	6150
0530:00	0	0.36	0	0	813	314	176	96.8	124	0	0	2900
0537:30	0	0.40	0	0	791	352	149	98.9	123	0	0	2400
0545:00	0	0.24	0	0	742	289	123	96.8	124	0	0	2900
0552:30	0	0.48	0	0	697	260	107	92.7	123	0	0	6100
0600:00	0	0.24	0	0	666	271	141	92.7	124	0	0	7600
0607:30	0	0.30	0	0	642	244	152	90.2	129	0	0	7900
0615:00	0	0.60	0	0	671	201	140	90.2	128	0	0	4800
0622:30	0	0.60	0	0	621	176	132	74.1	126	0	0	4400
0630:00	0	0.24	0	0	586	209	176	74.1	148	0	0	3700
0637:30	0	0.12	0	0	512	271	149	71.6	167	0	0	3900

Table 6-249 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: December 30 & 31, 1971 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0645:00	0	0.12	0	0	529	241	151	79.7	123	0	0	3200
0652:30	0	0.0	0	0	542	200	132	87.7	149	0	0	3400
				December 31, 1971								
0122:30	0	0	0	0	0	186	84	190	204	7.8	16	0
						144	49	200	371	7.6	31	0
						142	47	200	482	7.4	39	0
						132	39	200	496	7.5	34	0
						136	42	210	498	7.4	38	0
						133	45	210	400	7.3	39	0
						129	36	220	392	7.8	42	0
						126	34	222	398	7.1	43	0
						121	34	215	453	7.5	49	0
						125	39	212	471	7.6	44	0
						120	38	212	476	7.4	38	0
						110	27	210	485	7.8	36	0
						115	29	205	492	7.6	21	0
						119	27	200	445	7.7	16	0
						114	28	195	486	7.9	19	0
						112	14	190	496	7.8	41	0
						110	16	290	472	7.4	32	0
						119	23	182	488	7.7	49	0
						120	27	180	431	7.1	53	0
						107	18	175	406	7.9	31	0
						109	19	167	390	8.2	51	0
						103	17	170	371	8.2	40	0
						104	19	170	374	8.2	32	0

Table 6-250 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: January 15 & February 3, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0022:30	0	0	0	75.1								
0030:00	0	0	0	152.2								
0037:30	0	0	0	178.1								
0045:00	0	0	0	178.1								
0052:30	0	0	0	173.7								
0100:00	0	0	0	165.7								
0107:30	0	0	0	158.8								
0115:00	0	0	0	152.2								
0122:30	0	0	0	145.9								
0130:00	0	0	0	141.7								
0137:30	0	0	0	117.7								
0145:00	0	0	0	87.3								
0152:30	0	0	0	104.4								
0200:00	0	0	0	87.3								
0207:30	0	0	0	67.7								
				February 3, 1972								
0352:30	0	0	0	104.4								
0400:00	0	0	0	117.7								
0407:30	0	0.06	0	141.7								
0475:00	0	0	0	152.2								
0422:30	0	0	0.012	152.2								
0430:00	0	0	0.024	141.7								
0437:30	0	0	0.024	117.7								
0445:00	0	0	0.024	87.3								
0452:30	0	0	0.024	63.2								

Table 6-251 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 3, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0500:00	0	0	0.024	63.2								
0507:30	0	0	0.030	94.6								
0515:00	0	0	0.036	104.4								
0523:30	0	0	0.042	58.2								
0530:00	0.12	0.12	0.024	58.2								
0537:30	0.09	0.21	0.048	58.2								
0545:00	0.06	0.06	0.12	58.2								
0552:30	0.06	0.12	0.072	58.2								
0600:00	0.06	0.06	0.12	63.2								
0607:30	0.06	0.09	0.09	67.7								
0615:00	0.12	0.12	0.06	72.7								
0622:30	0	0	0.06	75.1								
0630:00	0	0	0.072	87.3								
0637:30	0	0	0.084	81.1								
0645:00	0.24	0.24	0.036	75.1								
0632:30	0.18	0.12	0.042	63.2								
0700:00	0	0.12	0.12	67.7								
0707:30	0	0	0.09	72.6								
0715:00	0.24	0	0.06	75.1								
0722:30	0.06	0.06	0.06	72.7								
0730:00	0	0.12	0.06	67.7								
0737:30	0.03	0.06	0.024	67.7								
0745:00	0.06	0	0.024	63.2								
0752:30	0.06	0.12	0.012	63.2								

Table 6-252 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: February 20 & March 3, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1615:00	0	0	0	141.7								
1622:30	0	0	0	236.6								
1630:00	0	0	0	259.2								
1637:30	0	0	0	266.7								
1645:00	0	0	0	251.5								
1652:30	0	0	0	236.6								
1700:00	0	0	0	221.7								
1707:30	0	0	0	221.7								
1715:00	0	0	0	194.0								
1722:30	0	0	0	165.7								
1730:00	0	0	0	117.7								
1737:30	0	0	0	94.6								
174_:00	0	0	0	75.10								
1752:30	0	0	0	58.2								
				March 3, 1972								
0922:30	0	0	0	104.4								
0930:00	0	0	0	117.7								
0937:30	0	0	0	141.7								
0945:00	0	0	0	145.9								
0952:30	0	0	0	158.8								
1000:00	0	0	0	165.7								
1007:30	0	0	0	165.7								
1015:00	0	0	0	158.8								
1022:30	0	0	0	127.7								
1030:00	0	0	0	87.3								

Table 6-253. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 3, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1037:30	0	0	0	75.1								
1045:00	0	0	0	104.4								
1052:30	0	0	0	165.7								
1100:00	0	0	0	178.1								
1107:30	0	0	0	141.3								
1115:00	0	0	0	87.3								
1307:30	0	0	0	104.4								
1315:00	0	0	0	178.1								
1322:30	0	0	0	194.0								
1330:00	0	0	0	178.1								
1337:30	0	0	0	165.7								
1345:00	0	0	0	127.68								
1352:30	0	0	0	117.7								
1400:00	0	0.36	0.048	87.3								
1407:30	0	0.30	0.048	58.2								
1537:30	0.12	0.06	0.06	94.5								
1545:00	0	0	0.12	127.7								
1552:30	0	0	0.18	165.7								
1600:00	0	0	0.12	165.7								
1607:30	0	0	0	141.7								
1615:00	0	0	0	94.5								
1622:30	0	0	0	104.4								
1630:00	0	0	0	94.5								
1637:30	0	0.24	0	127.7								
1645:00	0	0.12	0	165.7								

Table 6-254 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: Mar. 3, 10, 13 & 15, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1652:30	0	0.06	0	266.7								
1700:00	0	0	0	280.0								
1707:30	0	0.09	0	280.0								
1715:00	0	0.06	0	251.5								
1722:30	0	0.12	0	236.6								
1730:00	0	0	0	208.7								
1733:30	0	0	0	165.7								
1745:00	0	0	0	104.4								
1752:30	0	0.30	0	58.2								
				March 10, 1972								
0322:30	0	0	0	11.25								
0330:00	0	0	0	18.50								
				March 13, 1972								
1345:00	0	0	0	236.7								
1352:30	0	0	0	259.2								
1400:00	0	0	0	178.1								
1407:30	0	0	0	04.4								
1415:00	0	0	0	75.1								
1422:30	0	0	0	67.7								
				March 15, 1972								
2207:30	0.6	0.60	0.15	104.4								
2215:00	0.24	0	0	266.7								
2222:30	0.18	0	0	280.0								

Table 6-255. RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 15 & 16, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2230:00	0	0	0	251.5								
2237:30	0	0	0	236.6								
2245:00	0	0	0	380.9								
2252:30	0	0	0	347.0								
2300:00	0	0	0	313.8								
2307:30	0	0	0	251.5								
2315:00	0	0	0	208.7								
2322:30	0	0	0	127.7								
2330:00	0	0	0	58.2								
				March 16, 1972								
0522:30	0.24	0.24	0.30	94.6								
0530:00	0.6	0.36	0.24	127.7								
0537:30	0.42	0.30	0.18	141.7								
0545:00	0.24	0.24	0.30	165.7								
0552:30	0.18	0.33	0.15	236.6								
0600:00	0.12	0.30	0.012	380.9								
0607:30	0.12	0.0	0.012	433.4								
0615:00	0.06	0.12	0.012	446.0								
0622:30	0	0.06	0.012	446.0								
0630:00	0	0.12	0.024	425.6								
0637:30	0	0.12	0.024	398.0								
0645:00	0	0	0.024	330.2								
0652:30	0	0	0.024	280.0								
0700:00	0.24	0.06	0.024	266.70								
0707:30	0.24	0.09	0.06	251.5								

Table 6-256 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 16, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0715:00	0.024	0.30	0.06	236.6								
0722:30	0.024	0.0	0.06	221.7								
0730:00	0.024	0.12	0.06	194.0								
0737:30	0.024	0.06	0.06	194.0								
0745:00	0.12	0.12	0.12	221.7								
0752:30	0.12	0.12	0.18	236.6								
0800:00	0.06	0.12	0.24	236.6								
0807:30	0.09	0.21	0.24	236.6								
0815:00	0.12	0.06	0.24	251.5								
0822:30	0.12	0.12	0.18	266.7								
0830:00	0.0	0.24	0.012	280.0								
0837:30	0	0.09	0	297.9								
0845:00	0	0.06	0	330.2								
0852:30	0	0.06	0	347.0								
0900:00	0	0	0	363.5								
0907:30	0	0	0	363.5								
0915:00	0	0	0	313.8								
0922:30	0	0	0	280.0								
0930:00	0	0	0	266.7								
0937:30	0	0	0	251.5								
0945:00	0	0	0	236.6								
0952:30	0	0	0	208.7								
1000:00	0	0	0	178.1								
1007:30	0	0	0	141.7								
1015:00	0	0	0	117.7								
1022:30	0	0	0	94.6								

Table 6-257- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 16 & 21, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1030:00	0	0	0	87.3								
1037:30	0	0	0	75.1								
1045:00	0	0	0	67.7								
1052:30	0	0	0	63.2								
1100:00	0	0	0	58.2								
				March 21, 1972								
1437:30	0	0.24	0.12	397.9	-	-	-	-	-	-	-	-
1445:00	0	0	0.12	508.5	1680	612	410	-	375	7.98	43	-
1452:30	0	0.24	0.30	380.9	1580	545	355	100.9	261	7.40	36	-
1500:00	0	0.12	0.24	347.0	1288	516	316	100.9	228	7.28	30	-
1507:30	0	0.42	0.24	330.2	1360	499	298	100.9	223	8.02	30	-
1515:00	0	0.36	0.24	347.0	1655	480	207	105.0	266	-	-	-
1522:30	0	0.24	0.12	496.2	-	-	-	-	-	-	-	-
1530:00	0	0.12	0.18	483.8	1404	412	250	106.5	715	7.49	42	-
1537:30	0	0.18	0.18	496.2	1702	1086	721	107.5	517	-	-	-
1545:00	0	0.24	0.18	425.6	-	-	-	-	-	-	-	-
1552:30	0	0.24	0.18	389.4	-	-	-	-	-	-	-	-
1600:00	0	0.12	0.12	433.37	-	-	-	-	-	-	-	-
1607:30	0	0.12	0	433.37	-	-	-	-	-	-	-	-
1615:00	0	0.12	0	397.9	-	-	-	-	-	-	-	-
1622:30	0	0.12	0	347.00	-	-	-	-	-	-	-	-
1630:00	0	0	0	313.8	-	-	-	-	-	-	-	-
1637:30	0	0	0	297.9	-	-	-	-	-	-	-	-
1645:00	0	0	0	280.0	-	-	-	-	-	-	-	-
1652:30	0	0.06	0.06	266.70	1942	898	412	107.5	246	7.61	45	-

Table 6-258- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 21, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1700:00	.036	0.12	0.12	251.5	1228	750	390	103.4	208	7.48	28	-
1707:30	.030	0.18	0.12	236.6	930	741	376	103.4	185	7.76	28	-
1715:00	0.12	0.0	0.048	215.2	1064	700	312	103.4	171	7.80	23	-
1722:30	0.12	0.06	0.036	236.6	898	405	391	99.3	223	7.84	29	-
1730:00	.036	0.06	0.012	266.70	1330	690	306	99.3	266	7.88	29	-
1737:30	0.072	0.15	0.06	266.70	-	-	-	-	-	-	-	-
1745:00	0.12	0.24	0.144	266.70	-	-	-	-	-	-	-	-
1752:30	0.15	0.18	0.168	266.70	-	-	-	-	-	-	-	-
1800:00	0.048	0.12	0.12	273.3	-	-	-	-	-	-	-	-
1807:30	0.048	0.12	0.12	297.9	-	-	-	-	-	-	-	-
1815:00	0.048	0.0	0.18	313.8	-	-	-	-	-	-	-	-
1822:30	0.048	0.0	0.06	297.9	-	-	-	-	-	-	-	-
1830:00	0.048	0.0	0.06	280.0	-	-	-	-	-	-	-	-
1837:30	0.048	0.12	0.09	280.0	-	-	-	-	-	-	-	-
1845:00	0.048	0.12	0.06	273.3	-	-	-	-	-	-	-	-
1852:30	0.06	0.12	0.06	273.3	-	-	-	-	-	-	-	-
1900:00	0.06	0.0	0.024	280.0	-	-	-	-	-	-	-	-
1907:30	0.06	0.15	0.012	288.8	-	-	-	-	-	-	-	-
1915:00	0.06	0.18	0.012	297.9	-	-	-	-	-	-	-	-
1922:30	0.18	0.06	0.102	306.0	-	-	-	-	-	-	-	-
1930:00	0.12	0.12	0.12	313.8	-	-	-	-	-	-	-	-
1937:30	0.12	0.12	0.12	322.0	-	-	-	-	-	-	-	-
1945:00	0.12	0.12	0.12	330.2	-	-	-	-	-	-	-	-
1952:30	0.0	0.12	0.12	322.0	-	-	-	-	-	-	-	-
2000:00	0.0	0.12	0.12	297.9	-	-	-	-	-	-	-	-
2007:30	0.0	0.12	0.072	306.0	-	-	-	-	-	-	-	-

Table 6-259- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 21, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2015:00	0.0	0.12	0.024	313.8								
2022:30	0.0	0.0	0.036	397.9								
2030:00	0.0	0.12	0.06	528.0								
2037:30	0.096	0.12	0.06	496.2								
2045:00	0.096	0.12	0.06	397.9								
2052:30	0.108	0.06	0.12	347.0								
2100:00	0.0	0.0	0.0	330.2								
2107:30	0.0	0.30	0.0	322.0								
2115:00	0.0	0.60	0.60	313.8								
2122:30	0.3	0.0	0.30	297.9								
2130:00	0.0	0.0	0.0	280.0								
2137:30	0.0	0.12	0.0	266.70								
2145:00	0.0	0.0	0.0	251.5								
2152:30	0.0	0.0	0.0	221.7								
2200:00	0.0	0.0	0.0	208.7								
2207:30	0.0	0.0	0.0	165.7								
2215:00	0.0	0.0	0.0	145.8								
2222:30	0.0	0.0	0.0	141.7								
2230:00	0.0	0.0	0.0	141.7								
2237:30	0.0	0.0	0.0	141.7								
2245:00	0.0	0.0	0.0	178.1								
2252:30	0.0	0.0	0.0	208.7								
2300:00	0.0	0.0	0.0	208.7								
2307:30	0.0	0.0	0.0	208.7								
2315:00	0.0	0.0	0.0	208.7								
2322:30	0.0	0.24	0.0	208.7								

Table 6-260 RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 21 & 22, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2330:00	0.3	0	0.12	208.7	0	0	0	0	0	0	0	0
2337:30	0.15	0	0.12	208.7	0	0	0	0	0	0	0	0
2345:00	0	0	0.12	208.7	0	0	0	0	0	0	0	0
2352:30	0	0	0	208.7	0	0	0	0	0	0	0	0
2400:00	0	0	0	208.7	0	0	0	0	0	0	0	0
				March 22, 1972								
0007:30	0	0	0	208.7	0	160	76	62.3	152	7.08	30	1700
0015:00	0	0	0	194.0	0	174	82	49.3	109	7.10	34	1200
0022:30	0	0	0	152.17	0	173	84	35.6	123	7.12	27	2100
0030:00	0	0	0	127.7	0	189	81	46.8	147	7.20	28	2400
0037:30	0	0	0	117.7	0	193	91	42.3	280	7.21	26	1900
0045:00	0	0	0	104.4	0	192	93	51.1	208	7.15	26	1800
0052:30	0	0	0	101.3	0	181	99	62.3	187	7.12	28	1800
0100:00	0	0	0	81.1	0	234	107	143.6	190	7.09	29	1800
0107:30	0	0	0	75.1	0	236	109	143.6	190	7.08	34	3100
0115:00	0	0	0	72.7	0	212	126	121.7	350	7.00	41	3400
0122:30	0	0	0	72.7	0	227	117	156.1	408	7.02	24	3200
0130:00	0	0	0	72.7	0	234	109	99.8	281	7.10	34	3900
0137:30	0	0	0	72.7	0	242	111	99.8	242	7.22	32	3400
0145:00	0	0	0	67.7	0	274	106	79.3	206	7.30	28	4400
0152:30	0	0	0	67.7	0	291	129	66.8	185	7.58	29	7100
0200:00	0	0	0	67.7	0	310	132	54.3	180	7.60	27	7000
0207:30	0	0.06	0.03	75.1	0	316	142	59.1	170	7.55	29	3400
0215:00	0	0.12	0.06	81.1	0	321	191	54.3	170	7.60	25	3900
0222:30	0	0.12	0.024	87.3	0	309	107	54.1	180	7.40	21	3700

Table 6-261 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: March 22 & 29, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0230:00	0	0	0.024	94.6	0	210	171	49.3	152	7.58	16	4500
0237:30	0	0	0	104.4	0	186	140	39.1	128	7.36	19	4500
0245:00	0	0	0	117.7	0	124	96	35.6	143	7.64	23	4500
0252:30	0	0	0	94.6	0	110	90	35.6	147	7.74	25	4700
0300:00	0	0	0	87.3	0	109	78	35.6	147	7.86	32	4500
0307:30	0	0	0	75.1	0	0	0	0	0	0	0	0
0315:00	0	0	0	72.7	0	0	0	0	0	0	0	0
0322:30	0	0	0	67.7	0	0	0	0	0	0	0	0
				March 29, 1972								
1130:00	0.24	0.24	0	58.2	0	0	0	0	0	0	0	0
1137:30	0.24	0.18	0	165.7	1820	0	0	78.6	0	7.4	34	9100
1145:00	0.18	0	0	280.0	2218	0	0	71.9	0	7.6	0	0
1152:30	0.12	0.30	0	266.7	1212	628	401	76.1	313	7.7	37	11200
1200:00	0.12	0.12	0	251.5	884	416	302	82.6	547	7.9	20	13100
1207:30	0.12	0.12	0	236.6	814	421	311	83.7	533	7.9	18	14200
1215:00	0.24	0.12	0	221.7	932	542	332	82.7	367	7.6	15	13100
1222:30	0.12	0.12	0	208.7	916	530	209	80.1	318	7.5	19	19000
1230:00	0.06	0.0	0	178.1	1020	590	289	75.1	125	7.5	24	10700
1237:30	0.06	0.12	0	152.2	1098	607	405	69.4	304	7.5	29	12100
1245:00	0.06	0.12	0	117.7	1210	0	0	69.4	0	7.5	29	10200
1252:30	0.06	0.0	0	75.10	1054	0	0	69.5	0	7.5	35	11100
1300:00	0.06	0.0	0	44.0	1429	0	0	64.4	0	7.4	38	10600

Table 6-262 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 3, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1907:30	0	0.06	0	81.1								
1915:00	0	0.06	0	127.7								
1922:30	0.24	0.03	0	178.1								
1930:00	0.24	0.12	0	208.7								
1937:30	0.06	0.12	0.030	221.7								
1945:00	0.06	0.24	0.06	251.5								
1952:30	0.06	0.18	0.09	288.8								
2000:00	0.06	0.12	0.06	280.0								
2007:30	0.12	0.0	0.06	266.7								
2015:00	0.12	0.12	0.12	236.6								
2022:30	0.12	0.24	0.24	208.7								
2030:00	0.12	0.48	0.18	194.0								
2037:30	0.048	0.06	0.12	178.1								
2045:00	0.024	0.06	0.06	165.7								
2052:30	0.06	0.09	0.06	194.0								
2100:00	0.06	0.12	0.024	208.7								
2107:30	0.06	0.12	0.024	221.71								
2115:00	0.06	0.0	0.024	236.6								
2122:30	0.06	0.06	0.042	208.7								
2130:00	0.12	0.24	0.12	208.7								
2137:30	0.12	0.12	0.12	178.1								
2145:00	0.12	0.0	0.12	141.73								
2152:30	0.06	0.18	0.072	94.6								
2200:00	0.0	0.06	0.024	58.2								
2207:30	0.0	0.09	0.096	50.2								
2215:00	0.0	0.0	0.12	46.8								

Table 6-263 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 3 & 4, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2222:30	0	0	0.06	44.0								
2230:00	0	0	0	38.5								
2237:30	0	0	0	58.2								
2245:00	0	0	0	63.2								
2252:30	0	0	0	75.10								
2300:00	0	0	0	94.6								
2307:30	0	0.06	0	165.7								
2315:00	0	0.12	0	347.0								
2322:30	0	0.12	0	397.9								
2330:00	0.6	0.0	0	425.6								
2337:30	0.24	0.03	0.06	433.4								
2345:00	0.12	0.06	0.24	458.6								
2352:30	0.30	0.60	0.24	363.5								
2400:00	0.36	0.60	0.24	330.2								
				April 4, 1972								
0007:30	0.42	0.30	0.24	297.9								
0150:00	0	0.48	0.06	266.7								
0022:30	0	0.30	0.54	236.6								
0030:00	0	0.12	0.60	208.7								
0037:30	0	0.06	0	165.7								
0045:00	0	0.12	0	141.7								
0052:30	0	0	0	94.6								
0100:00	0	0	0	75.1								
0107:30	0	0	0	72.67								
0115:00	0	0	0	67.73								

Table 6-264 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 4 (cont.) & 7 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				April 4, 1972 (cont.)								
0122:30				63.2								
0130:00				63.2								
				April 7, 1972								
0337:30		0		104.4								
0345:00		0		127.7								
0352:30		0		104.4								
0400:00		0		87.3								
0407:30		0	0.3	104.4								
0415:00		0.60	0.6	165.7								
0422:30		0.90	1.2	496.2								
0430:00		0.60	1.2	547.5								
0437:30		0.60	0.6	547.5								
0445:00		0.0	1.2	547.5								
0452:30			0.3	547.5								
0500:00				547.5								
0507:30				433.4								
0515:00				347.0								
0522:30				313.8								
0530:00		0.12		280.0								
0537:30		0.09	251.5									
0545:00		0.06		201.3								
0552:30		0.42	0.12	221.7								
0600:00		0.24	0.36	236.6								
0607:30		0.12	0.30	397.9								
0615:00		0.12	0.0	458.6								

Table 6-265- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
				April 7, 1972 (cont.)								
0622:30		0.06		380.9								
0630:00		0.0		347.0								
0637:30				330.2								
0645:00				280.0								
0652:30				236.7								
0700:00				194.0								
0707:30				165.7								
0715:00				127.7								
0722:30				117.7								
0730:00				117.7								
0737:30				117.7								
0745:00				117.7								
0752:30				117.7								
0800:00				117.7								
0807:30				117.7								
0815:00				110.1								
0822:30				104.4								
0830:00				104.4								
0837:30				101.3								
0845:00				101.3								
0852:30				94.6								
0900:00				87.3								
0907:30				87.3								
0915:00				87.3								
0922:30				87.3								
0930:00				87.3								

Table 6-266- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0937:30				87.3								
0945:00				87.3								
0952:30				87.3								
1000:00				87.3								
1007:30				87.3								
1015:00				87.3								
1022:30				87.3								
1030:00				87.3								
1037:30				87.3								
1045:00				87.3								
1052:30				87.3								
1100:00		0.12		87.3								
1107:30		0.24		104.4								
1115:00		0.24	0.24	236.6								
1122:30		0.18	0.36	313.8								
1130:00		0.0	0.24	347.0								
1137:30		0.18	0.42	317.9								
1145:00		0.24	0.24	483.8								
1152:30		0.54	0.24	483.8								
1200:00		0.12	0.48	483.8								
1207:30		0.15		483.8								
1215:00		0.0		433.4								
1222:30				380.9								
1230:00				347.0								
1237:30				313.8								
1245:00				280.0								

Table 6-267 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1252:30	0	0	0	266.7								
1300:00	0	0	0	251.5								
1307:30	0	0	0	236.6								
1315:00	0	0	0	175.1								
1322:30	0	0	0	165.7								
1330:00	0	0.18	0.06	175.1								
1337:30	0	0.06	0.27	221.7								
1345:00	0	0	0.30	313.8								
1352:30	0	0.30	0.27	458.6								
1400:00	0	0.36	0.12	458.6								
1407:30	0	0.12	0.12	425.6								
1415:00	0	0	0.24	347.0								
1422:30	0	0	0	363.5								
1430:00	0	0	0	347.0								
1437:30	0	0	0.24	458.6								
1445:00	0	0.12	0.24	458.6								
1452:30	0	0.12	0.12	458.6								
1500:00	0	0.12	0.06	458.6								
1507:30	0	0.06	0.06	458.6								
1515:00	0	0	0.06	458.6								
1522:30	0	0.09	0.06	458.6								
1530:00	0	0.06	0.06	458.6								
1537:30	0	0.06	0.06	458.6								
1545:00	0	0.12	0.06	458.6								
1552:30	0	0.12	0.06	458.6								
1600:00	0	0	0.048	458.6								

Table6-268 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1607:30	0	0	0.048	458.6								
1615:00	0	0	0.048	458.6								
1622:30	0	0	0.054	458.6								
1630:00	0	0	0.06	458.6								
1637:30	0	0	0.06	458.6								
1645:00	0	0	0	458.6								
1652:30	0	0	0	458.6								
1700:00	0	0	0	458.6								
1707:30	0	0	0	433.4								
1715:00	0	0	0	425.6								
1722:30	0	0	0	397.9								
1730:00	0	0	0	380.9								
1737:30	0	0	0	363.5								
1745:00	0	0	0	347.0								
1752:30	0	0	0	330.2								
1800:00	0	0	0	339.0								
1807:30	0	0	0	236.6								
1815:00	0	0	0	221.7								
1822:30	0	0	0	208.7								
1830:00	0	0	0	186.1								
1837:30	0	0	0	178.1								
1845:00	0	0	0	165.7								
1852:30	0	0	0	152.2								
1900:00	0	0	0	141.7								
1907:30	0	0	0	133.6								
1915:00	0	0	0	127.7								

Table 6-269 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 7, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1922:30	0	0	0	123.7								
1930:00	0	0	0	117.7								
1937:30	0	0	0	117.7								
1945:00	0	0	0	110.1								
1952:30	0	0	0	110.1								
2000:00	0	0	0	104.4								
2007:30	0	0	0	102.8								
2015:00	0	0	0	101.3								
2022:30	0	0	0	95.0								
2030:00	0	0	0	94.6								
2037:30	0	0	0	89.9								
2045:00	0	0	0	87.3								
2052:30	0	0	0	87.3								
2200:00	0	0	0	87.30								
2207:30	0	0	0	81.1								
2400:00	0	0	0	81.1								

Table 6-270 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 8, 1972 MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1000:00	0	0	0	81.1								
1007:30	0	0	0	81.1								
1015:00	0	0	0	81.1								
1022:30	0	0	0	87.3								
1030:00	0	0	0	87.3								
1037:30	0	0	0	87.3								
1045:00	0	0	0	87.3								
1052:30	0	0	0	87.3								
1100:00	0	0	0	87.3								
1107:30	0	0	0.24	87.3								
1115:00	0	0	0.024	87.3								
1122:30	0	0	0.024	87.3								
1130:00	0	0	0.084	87.3								
1137:30	0	0	0.24	87.3								
1145:00	0	0	0.12	87.3								
1152:30	0	0	0.12	87.3								
1200:00	0	0	0.12	87.30								
1207:30	0	0	0.12	87.3								
1215:00	0	0	0.12	87.3								
1222:30	0	0	0.12	87.3								
1230:00	0	0.24	0.12	87.3								
1237:30	0	0.18	0.12	87.3								
1245:00	0	0	0.12	87.3								
1252:30	0	0	0.12	87.3								
1300:00	0	0	0.06	87.3								
1307:30	0	0	0.06	87.3								

Table6-271 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 8, 1972 (Cont'd.) MONITORING STATION: Outlet 10' x 15'

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1315:00	0	0.12	0.06	87.3								
1322:30	0	0.24	0	87.3								
1330:00	0	0.18	0	87.3								
1337:30	0	0.24	0	87.3								
1345:00	0	0.06	0	87.3								
1352:30	0	0	0	87.3								
1400:00	0	0.06	0	87.30								
1407:30	0	0	0	75.10								
1415:00	0	0.12	0	67.73								

Table 6-272 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 12, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1807:30				75.1								
1815:00		0.24		101.3								
1822:30		0.0		380.9								
1830:00		0.12	0.24	397.9								
1837:30				330.2								
1845:00				266.7								
1852:30				194.0								
1900:00				117.7								
1907:30				104.4								
1915:00				165.7								
1922:30				194.0								
1930:00				165.7								
1937:30				104.4								

Table 6-273 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 13, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0145:00				165.7								
0152:30				322.2								
0200:00				297.7								
0207:30				266.7								
0215:00				208.7								
0222:30				236.64								
0230:00				266.7								
0237:30				330.2								
0245:00				397.9								
0252:30				397.9								
0300:00				433.4								
0307:30				567.0								
0315:00				567.0								
0322:30				587.1								
0330:00				587.1								
0337:30				029.0								
0345:00				629.0								

Table 6-274 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 13, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0352:30				691.0								
0400:00				734.2								
0407:30				691.0								
0415:00				628.9								
0422:30			0.18	608.0								
0430:00		0.24	0.24	608.0								
0437:30		0.18		691.0								
0445:00		0.0		691.0								
0452:30				608.0								
0500:00				587.1								
0507:30				608.1								
0515:00		0.48		649.3								
0522:30		0.0		587.1								
0530:00		0.12		547.5								
0537:30		0.12		528.0								
0545:00				528.0								
0552:30				528.0								
0600:00			0.6	496.2								
0607:30			0.6	483.2								
0615:00			0.6	325.6								
0622:30			0.6	397.9								
0630:00		0.36	0.42	397.9								
0637:30		2.28	0.24	297.9								
0645:00		0.84	0.24	325.6								
0652:30		0.30	0.12	458.6								

Table 6-275 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 13, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0700:00		0.24	0.12	458.6								
0707:30		0.18	0.12	325.6								
0715:00		0.30	0.12	397.9								
0722:30		0.24	0.24	380.9								
0730:00		0.12		363.5								
0737:30		0.18		355.0								
0745:00		0.60		347.0								
0752:30		0.18		339.2								
0800:00		0.24	0.06	330.2								
0807:30		0.18	0.06	330.2								
0815:00		0.24	0.12									
0822:30		0.18	0.12	330.2								
0830:00				330.2								
0837:30				330.2								
0845:00				322.2								
0852:30				322.2								
0900:30				313.8								
0907:30				313.8								
0915:00				297.9								
0922:30				280.0								
0930:00				266.7								
0937:30				266.7								
0945:00				259.1								
0952:30				259.1								
1000:00				251.5								

Table 6-276 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 13, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1007:30				251.5								
1015:00				251.5								
1022:30				221.7								
1030:00				194.0								
1037:30				173.7								
1045:00				141.73								
1052:30				117.73								
1100:00				110.1								
1107:30				104.4								
1115:00				101.3								
1122:30				94.6								
1130:00				94.6								
1137.30				89.9								
1145:00				89.9								
1152:30				81.1								
1200:00				75.1								
1207:30				67.7								
1215:00				67.7								
1222:30				63.2								
1230:00				63.2								

Table 6-277 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 15, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0507:30				75.1								
0515:00				141.7								
0522:30				221.7								
0530:00				251.5								
0537:30				236.6								
0545:00				208.7								
0552:30				178.1								
0600:00			0.12	152.5								
0607:30			0.12	165.7								
0615:00			0.12	165.7								
0622:30			0.12	152.2								
0630:00			0.12	127.7								
0637:30			0.12	89.9								
0645:00			0.12	104.4								
065]:30			0.06	141.7								
0700:00			0.024	313.8								
0707:30			0.024	363.5								
0715:00			0.024	397.9								
0722:30			0.04]	330.2								
0730:00			0.06	280.0								
0737:30			0.06	251.5								
0745:00			0.06	194.0								
0752:30			0.03	127.7								
0800:00				87.3								
0807:30				67.7								

Table 6-278- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 19, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1615:00	0.30	1.12	0.12	75.1								
1622:30	0.18	0.12	0.18	104.4								
1630:00	0.12	0.12	0.06	104.4								
1637:30	0.12	0.06	0.030	127.7								
1645:00	0.12	0.0	0.24	297.9								
1652:30	0.12	0.30	0.24	280.0								
1700.00	0.12	0.24	0.24	259.6								
1707:30	0.12	0.24	0.36	251.5								
1715:00		0.0	0.60	251.5								
1722:30				380.9								
1730:00				363.5								
1737:30				330.2								
1745:00				266.7								
1752:30				221.7								
1800:00				178.1								
1807:30				127.7								
1815:00				75.1								
1822:30				58.2								
2015:00	0.12	0.0	0.12	313.8								
2022:30			0.12	397.9								
2030:00				347.0								
2037:30				313.8								
2045:00				266.7								
2052:30				221.7								
2100:00				199.0								
2107:30				127.7								
2115:00				104.4								
2122:30				67.73								

Table 6-279- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 20, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0707:30	0.12	0	0.24	104.4		116	76	131.5	370	7.4	9	
0715:00	0.24	0.36	0.24	236.6		171	14	128.4	351	7.7	6	
0722:30	0.18	0.24	0.12	347.0		192	110	110.9	360	7.8	7	
0730:00	0.6	0.12	0.12	397.9		186	107	136.5	365	7.7	9	
0737:30	0.12	0.18	0.48	433.4		211	131	147.8	403	7.8	11	
0745:00	0.12	0.24	0.60	483.8			224	147.8	413	7.4	14	
0752:30	0.12	0.06	0.42	325.6		271	151	154.0	418	7.3	16	
0800:00	0.0	0.0	0.12	300.9		286	107	159.6	399	7.1	7	
0807:30		0	0.12	347.0		392	191	159.6	379	7.5	16	
0815:00		0		313.8		390	194	154.0	365	7.5	8	
0822:30		0		280.0		410	201	168.3	346	7.6	19	
0830:00		0		266.7		410	233	142.8	322	7.7	14	
0837:30		0		251.5		403	241	133.1	303	7.6	13	
1845:00		0		221.7		376	209	131.5	283	7.8	17	
0852:30		0.30		194.0		381	201	115.3	269	7.4	15	
0900:00		0.0		178.1		307	198	109.1	260	7.7	14	
0907:30			0.12	165.7		314	176	107.5	235	7.6	19	
0915:00			0.36	141.7		289	145	98.0	216	7.4	21	
0922:30				127.7		227	171	96.5	221	7.3	23	
0930:00		0		117.7		281	130	91	197	7.0	17	
0937:30		0		104.4		275	109	75.3	168	7.4	14	
0945:00		0		87.30		271	110	72.0	173	7.3	9	
0952:30		0		75.10		288	98	63.5	154	7.2	7	
1000:00		0		58.2				63.5	135	7.2	16	

Table 6-280- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 21, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2115:00	0	0		75.10								
2122:30	0			94.6								
2130:00	0			313.8								
2137:30	0			363.5								
2145:00	0			313.8								
2152:30	0			251.5								
2200:00	0			221.7								
2207:30	0			208.7								
2215:00	0			194.0								
2222:30	0			178.1								
2230:00	0.60			173.7								
2237:30	0.30			152.2								
2245:00	0			152.2								
2252:30	0			145.8								
2300:00	0			141.7								
2307:30	0.12			133.6								
2315:00	0.12			133.6								
2322:30	0.12			127.7								
2330:00	0.0			127.7								
2337"30	0			117/7								
2345:00	0			104.4								
2352:30	0			94.6								
2400:00	0	0		75.1								

Table 6-281- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 24, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1015:00		0.0		67.7					379			
1022:30		0.0		127.7	484	208	115	135.6	389	7.4		1600
1030:00		0.0		152.2	506	246	132	146.8	398	7.8		1400
1037:30		0.15		165.7	531	291	141	158 1	417	7.7		1100
1045:00		0.18		208.7	580	371	163	163.1	422	7.8		1300
1052:30		0.18		221.7	607	392	174	181.2	437	7.6		2100
1100:00		0.12		221.7	671	431	151	186.7	432	7.1		3200
1107:30		0.12		236.6	677	444	234	186.	417	7.5		2600
1115:00		0.0		251.5	643	422	289	176.8	437	7.5		2700
1122:30		0.06		251.5	692	416	261	171.1	437	7.5		2800
1130:00		0.36		251.5	742	321	211	161.2	417	7.8		2900
1137:30		0.18		236.6	701	378	231	158.1	403	7.6		2100
1145:00		0.24		221.7	633	390	245	150.3	384	7.8		2400
1152:30		0.12		208.7	641	352	233	150.9	379	7.8		2300
1200:00		0.12		178.1	539	289	201	146.8	360	7.8		2700
1207:30		0.15		178.1	507	275	170	139.3	351	7.7		2300
1215:00		0.06		165.7	501	255	142	140.9	347	7.5		2900
1222:30		0.06		194.0	409	241	149	125.6	341	7.1		3600
1230:00		0.12		208.7	495	231	138	114.3	327	7.6		4000
1237:30		0.0		221.7	401	240	107	112.8	304	7.1		4000
1245:00		0.0		251.5	439	230	89	115.3	304	7.3		3200
1252:30		0.12		251.5	398	211	81	107.5	285	7.2		3500
1300:00		0.06		251.5	372	207	76	105	275	7.4		3500
1307:30		0.09		236.6	381	110	78	96.8	242	7.4		4000
1315:00		0.0		330.2								

Table 6-282- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 24, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1322:30		0.0		330.2								
1330:00		0.24		297.9								
1337:30		0.18		280.0								
1345:00	0	0.0	0	266.7								
1352:30		0.06		251.5								
1400:00		0.24		271.7								
1407:30		0.12		165.7								
1415:00				127.7								
1422:30				104.4								
1430:00				75.10								
1437:30				67.7								
1445:00				58.2								

Table 6-283- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1630:00				236.64								
1637:30				236.64	489	281	160	119.1	227			7000
1645:00				221.7	416	326	122	120.6	241			8400
1652:30				221.7	423	384	184	143.1	252			8900
1700:00				221.7	481	481	231	162.5	307			9400
1707:30				208.7	712	496	249	138.1	352			9800
1715:00				194.0	826	529	310	135.6	317			11220
1722:30				178.0	923	516	316	119.3	327			9400
1730:00				178.0	882	472	312	115.3	314			9800
1737:30				165.7	870	486	324	105	292			9100
1745:00				158.8	921	490	289	100	276			8600
1752:30				152.2	854	412	292	96.8	281			8500
1800:00				133.6	834	407	273	94.3	299			8500
1807:30				127.7	881	352	216	94.8	240			8500
1815:00				117.6	851	327	214	91.8	231			7100
1822:30				104.4	792	381	222	88.7	207			6400
1830:00				94.6	750	296	189	92.8	204			6300
1845:00				94.6	742	310	186	91.2	204			6000
1852:30		0		87.3	730	314	192	94.3	196			4900
1900:00		0.18		87.30	722	312	196	97.5	197			4100
1907:30				87.30	713	310	184	100	187			3800
1915:00				87.30	777	390	237	97.1	183			3600

Table 6-284- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1922:30				87.30	741	314	281	91.8	171			3600
1930:00				94.6								
1937:30				104.4								
1945:00				104.4								
1952:30				94.6								
2000:00				87.3								
2007:30				81.1								
2015:00				75.1								
2022:30		0.24		67.7								
2037:30		0.12		67.7								
2045:00				63.2								
2052:30				63.2								
2100:00			0.12									
2145:00	0.12	0.12		104.4								
2152:30	0.12	0.18		165.7								
2200:00	0.0			280.0								
2207:30				297.9								
2215:00				305.9								
2222:30				280.0								
2230:00				266.70								
2237:30				251.5								
2245:00				236.6								
2252:30				208.7								
2300:00				178.1								
2307:30				152.2								

Table 6-285- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 10, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2315:00				117.7								
2322:30		0.06		94.6								
2330:00				75.1								
2337:30				67.7								
2345:00				58.2								
2352:30				87.30								

Table 6-286- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 12, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0845:00				94.6								
0852:30				236.6								
0900:00				380.9								
0907:30				397.9								
0915:00				528.0								
0922:30				508.5								
0930:00				496.2								
0937:30				508.5								
0945:00				608.0								
0952:30				567.0								
1000:00				547.5								
1007:30				547.5								
1015:00				508.5								
1022:30				496.2								
1030:00				483.8								
1037:30				547.5								
1045:00				508.5								
1052:30				433.4								
1100:00				433.4								
1107:30				425.6								
1115:00				397.9								
1122:30				347.0								
1130:00				313.8								
1145:00				266.70								
1152:30				297.9								

Table 6-287- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 12, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1200:00				330.2								
1207:30				330.2								
1215:00				330.2								
1222:30				330.2								
1230:00				330.2								
1237:30				330.2								
1245:00				330.2								
1252:30				313.8								
1300:00				280.0								
1307:30				266.70								
1315:00				266.7								
1322:30				251.5								
1330:00				251.5								
1337:30				236.6								
1345:00				221.7								
1352:30				208.7								
1400:00				194.0								
1407:30				178.1								
1415:00				165.7								
1422:30				165.7								
1430:00				208.7								
1432:30				221.7								
1445:00				221.7								
1452:30				194.0								
1500:00				165.7								
1507:30				141.73								

Table 6-288- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: April 16, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0545:00		0.0	0.06	165.7								
0552:30			0.30	194.0								
0600:00		0.24	0.6	165.7								
0607:30		0.18		117.7								
0615:00		0.0		87.3								
0622:30				46.8								
0630:00				363.5								
0637:30				800.55								
0645:00				823.5								
0652:30				800.5								
0700:00		0.24		691.0								
0707:30		0.18		608.0								
0715:00				628.9								
0722:30				670.0								
0730:00				649.3								
0737:30				547.5								
0745:00				483.8								
0752:30				325.6								
0800:00		0.12		433.4								
0807:30		0.06		325.6								
0815:00				380.9								
0822:30				363.5								
0830:00				347.0								
0837:30				330.2								
0845:00		0.12		313.8								
0852:30		0.12		297.9								

Table 6-289- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 12, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1515:00				106.6								
1522:30				87.3								
1530:00				87.3								
1537:30				104.4								
1545:00				141.7								
1552:30				165.7								
1600:00				208.7								
1607:30				236.6								
1615:00				236.6								
1627:30				244.1								
1630:00				294.1								
1637:30				251.5								
1645:00				236.6								
1652:30				221.7								
1700:00				208.7								
1707:30				165.7								
1715:00				145.9								
1722:30				127.7								
1730:00				104.4								
1737:30				87.30								
1807:30				87.30								
1815:00				87.30								
1822:30				87.30								
1830:00				72.7								
1837:30				67.7								

Table 6-290- RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0845:00	0.24		0.048	104.4								
0852:30	0.12		0.048	165.7								
0900:00	0.06		0.096	363.7								
0907:30	0.09		0.048	397.9								
0915:00	0.12		0.048	528.0								
0922:30	0.12		0.036	508.5								
0930:00	0.30		0.24	508.5								
0937:30	0.30		0.24	508.5								
0945:00	0.30		0.24	567.0								
0952:30	0.30		0.30	608.0								
1000:00	0.30		0.24	567.0								
1007:30	0.30		0.30	528.0								
1015:00	0.24		0.48	528.0								
1022:30	0.48		0.36	508.5								
1030:00	0.60		0.48	498.0								
1037:30	0.30		0.36	483.8								
1045:00	0.24		0.60	496.2								
1052:00	0.24		0.24	578.2								
1100:00	0.24		0.24	483.8								
1107:30	0.18]		0.24	496.2								
1115:00	0.12		0.24	578.2								
1122:30	0.18		0.12	483.8								
1130:00	0.24		0.24	423.4								
1137:30	0.27		0.24	380.9								
1145:00	0.18		0.24	362.5								

Table 6-291 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1152:30	0.12		0.12	330.2								
1200:00			0.12	313.8								
1207:30			0.09	251.5								
1215:00			0.06	330.2								
1222:30			0.12	330.2								
1230:00			0.06	330.2								
1237:30	0.3		0.09	330.2								
1245:00	0.26		0.12	313.8								
1252:30	0.12		0.12	266.7								
1300:00	0.12		0.06	266.7								
1307:30	0.06		0.06	266.7								
1315:00	0.06		0.06	251.5								
1322:30	0.06		0.06	251.5								
1330.00	0.06		0.024	251.5								
1337:30	0.06		0.024	236.6								
1345:00	0.12		0.024	221.7								
1352:30			0.036	2087								
1400:00	0.06		0.048	194.7								
1407:30	0.09		0.024	165.7								
1415:00	0.12		0.048	158.8								
1422:30	0.12		0.024	178.1								
1430:00				221.7								
1437:30				221.7								
1445:00				221.7								
1452:30				194.0								
1500:00				165.7								

Table 6-292 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 13, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1507:30				141.7								
1515:00				104.4								
1522:30				87.3								
1745:00	0.12			106.6								
1752:30	0.12			87.30								
1800:00	0.12			87.30								
1807:30				87.30								
1815:00				87.30								
1822:30				87.30								
1830:00				75.1								
1837:30				67.7								

Table 6-293 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 29, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1352:30		6.60		313.8								
1400:00	1.2	0.42	1.2	370.4	344	216	141	98.6	845	7.4	16	6100
1407:30	1.8	0.12	2.4	691.0	471	224	139	104	600	7.4	14	3900
1415:00	0	0.12	1.2	975.2	499	227	130	126.5	552	7.3	12	4400
1422:30	0	0.12	0.9	649.2	527	289	128	115	494	7.1	16	9100
1430:00	0	0.60	0.36	659.6	634	426	134	110.3	422	7.6	16	9000
1437:30	0.42	0.12	0.15	659.6	634	426	134	110.3	422	7.6	18	9000
1445:00	0	0	0.06	587.1	611	427	137	105.3	403	7.4	23	6700
1452:30	0	0	0.06	458.6	679	468	271	97.5	298	7.9	31	6400
1500:00	0	0.36	0.24	397.9	743	486	244	95.9	269	7.8	19	7200
1507:30				372.2	756	438	223	94.1	230	7.9	37	7700
1515:00				397.9	777	410	241	99.1	298	7.8	29	7900
1522:30				397.9	710	390	196	95.9	305	7.6	23	7400
1530:00				380.9	630	370	178	92.5	329	7.4	27	7600
1537:30				330.2	641	352	191	92.5	433	7.4	24	7200
1545:00				280.0	609	327	186	95.9	436	7.7	19	7100
1552:30				251.5	571	307	171	95.9	412	7.7	19	7600
1600:00				165.7	544	341	126	84.6	387	7.7	19	7900
1607:30				141.7	571	271	111	74.6	358	7.7	17	6700
1615:00				127.7	509	289	126	71.5	305	7.9	14	6300
1622:30				194.0	481	210	129	84.6	266	7.8	13	6400
1630:00				123.7	439	236	141	84.6	218	7.8	17	6400
1637:30				117.7	455	241	107	81.1	165	7.8	12	6400
1645:00				127.7	490	237	98	81.1	165	7.8	15	6400
1652:30				127.7								
1700:00				127.7								

Table 6-294 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 29, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1707:30	0	0.12	0.24	127.7								
1715:00	0.24		0.24	127.7								
1722:30	0.18		0.33	123.7								
1730:00	0.12		0.12	117.7								
1737:30	0.12	0.12	0.12	117.7								
1745:00	0.06	0.12	0.06	117.7								
1752:30	0.052	0.12		117.7								
1800:00	0.048	0.0		117.7								
1807:30	0.024			127.7								
1815:00	0.024	0.30		127.7								
1822:30	0.012			127.7								
1830:00	0.0			127.7								
1837:30				127.7								
1845:00				127.7								
1852:30				127.7								
1900:00				127.7								
1907:30				127.7								
1915:00				127.7								
1922:30				127.7								
1930:00				127.7								
1937:30				123.7								
1945:00				123.7								
1952:30				117.7								
2000:00		0.06		104.4								
2007:30				104.4								
2015:00				104.4								

Table 6-295 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: May 29, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
2022:30				104.4								
2030:00				104.4								
2037:30				104.4								
2045:00				104.4								
2052:30				104.4								
2100:00				104.4								
2107:30				94.6								
2115:00				94.6								
2122:30				94.6								
2130:00				94.6								
2137:30				89.9								
2145:00				87.3								
2152:30				87.3								
2200:00				87.3								
2207:30				81.1								
2215:00				81.1								
2222:30				75.1								
2230:00				75.1								
2237:30				72.7								
2245:00				72.7								
2252:30				67.7								
2300:00				63.2								
2307:30				63.2								
2315:00				58.2								

Table 6-296 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 1, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0607:30				72.7								
0615:00				490.0		317	106	156.1	237	7.8	18	7100
0622:30				458.6		352	127	167.0	281	7.7	16	1600
0630:00				433.4		324	152	132.0	294	7.4	17	1400
0637:30				433.4		416	210	135.6	317	7.6	24	1900
0645:00				496.2		480	224	122.8	367	7.6	31	2300
0652:30				508.5		497	231	110.0	390	7.6	12	2400
0700:00				528.0		498	252	125.6	371	7.6	11	2700
0707:30				528.0		526	257	125.6	380	7.5	19	7600
0715:00				433.4		571	311	105.	381	7.5	23	7800
0722:30				347.0		684	377	112.8	365	7.7	21	6400
0730:00				313.8		612	355	102.8	352	7.8	20	6200
0737:30				298.0		631	341	97.1	317	7.7	27	7900
0745:00				280.0		654	370	91.8	327	7.5	21	7000
0752:30				266.7		555	289	91.8	218	7.4	16	6200
0800:00				251.5		516	276	91.2	237	7.7	16	4900
0807:30				398.0		492	291	91.2	289	7.6	19	4300
0815:00				745.00		411	230	88.7	222	7.6	17	4100
0822:30				734.2		433	277	88.7	214	7.6	12	3700
0830:00				734.2								
0837:30				734.2								
0845:00				483.8								
0900:00				433.7								
0907:30				380.9								
0915:00				330.2								

Table 6-297 · RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 1, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0922:30	0.15		0.3	313.8								
0930:00	0.60	0.6	0.24	297.9								
0937:30	0.42	0.30	0.18	266.70								
0945:00	0.36	0.36	0.30	221.70								
0952:30	0.12	0.42	0.45	178.0								
1000:00	0.12	0.24	0.36	152.2								
1007:30	0.24	0.18	0.42	141.7								
1015:00	0.36	0.24	0.60	127.7								
1022:30	0.30	0.54	0.60	117.7								
1030:00	0.60	0.48	0.06	104.4								
1037:30	0.12	0.30	0.12	104.4								
1045:00	0.12	0.0	0.12	101.3								
1052:30	0.12	0.18	0.12	101.3								
1100:00		0.0	0.012	94.6								
1107:30			0.024	94.6								
1115:00			0.024	101.3								
1122:30			0.018	101.3								
1130:00			0.0	104.4								
1137:30	0.6	1.62	1.14	87.3								
1145:00	1.2	0.60	1.2	75.1								
1152:30	1.32	1.32	0.6	75.1								
1200:00	0.36	0.36		67.7								
1207:30		0.30		67.7								
1215:00		0.48		67.7								
1222:30		0.06		63.2								
1230:00				63.2								

Table 6-298 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 1, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1237:30				58.2								
1230:00				58.2								
1245:00				58.2								
1252:30				58.2								
1300:00				58.2								
1307:30				58.2								
1315:00				58.2								
1322:30				58.2								
1330:00				58.2								
1337:30				58.2								
1345:00				58.2								
1352:30				165.7								
1400:00				313.8								
1407:30				691.0								
1415:00				800.5								
1422:30				800.5								
1430:00				496.2								
1437:30				458.6								
1445:00				416.9								
1452:30				363.5								
1500:00				347.0								
1507:30				330.2								
1515:00				313.8								
1522:30				266.7								
1530:00				236.6								
1537:30				194.0								

Table 6-299 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 1, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1545:00				152.2								
1552:30				127.7								
1600:00				104.4								
1607:30				94.6								
1615:00				94.6								
1622:30				87.30								
1630:00				75.1								
1637:30				75.1								
1645:00				75.1								
1652:30				75.10								
1700:00				75.10								
1707:30				75.10								
1715:00				75.10								
1722:30				75.10								
1730:00			0.6	75.10								
1737:30	2.40	0.30	0.6	75.10								
1745:00		0.96	0.6	67.7								
1752:30		0.92	0.6	67.7								
1800:00		0.24		67.7								
1807:30		0.60		63.2								
1815:00		0.36		63.2								

Table 6-300 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 6, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
0322:30				389.4								
0330:00				313.8								
0337:30				266.7								
0345:00				194.0								
0352:30				117.7								
0700:00			0.06	165.7								
0707:30			0.06	289.0								
0715:00			0.06	251.5								
0722:30			0.06	221.7								
0730:00			0.06	221.7								
0737:30			0.03	165.7								
0745:00				104.4								
0752:30				58.2								

Table 6-301 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 15, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1415:00			0.48	313.8								
1422:30			0.30	778.4								
1430:00	1.08		0.6	587.1								
1437:30	0.66		0.36	567.0								
1445:00	0.12		0.6	496.2								
1452:30	0.06		0.6	458.6								
1500:00			0.12	325.6								
1507:30			0.12	380.9								
1515:00			0.12	313.8								
1522:30			0.06	266.7								
1530:00				251.5								
1537:00				221.7								
1545:00				194.0								
1552:30				127.7								
1600:00				94.6								
1607:30				58.2								
1615:00				72.7								
1622:30				397.9								
1630:00	1.44			939.5								
1637:30	1.56		0.3	939.5								
1645:00	0.12		0.6	800.5								
1652:30			0.6	587.1								
1700:00		0.36	0.6	528.0								
1707:30		0.24	0.9	496.2								
1715:00		0.36	1.2	380.9								
1722:30		0.30		362.5								

Table 6-302 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 15, 1972 (cont.) MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1730:00	0.60	0.0		380.9								
1737:30				397.9								
1745:00	0.06			440.8								
1752:30	0.27			397.9								
1800:00		0.6		363.5								
1807:30		0.18		347.0								
1815:00		0.12		297.9								
1822:30		0.06		266.7								
1830:00				251.5								
1837:30				251.5								
1845:00				251.5								
1852:30	0.18			251.5								
1900:00	0.24			251.5								
1907:30	0.06			280.0								
1915:00				313.8								
1922:30				266.7								
1930:00				251.5								
1937:30				221.7								
1945				141.7								
1952:30				104.4								
2000:00				87.3								
2007:30				75.1								
2015:00				67.7								
2022:30				63.2								
2030:00				63.2								
2037:30				58.2								

Table6-303 - RUNOFF QUANTITY AND QUALITY DATA - BLOODY RUN SEWER WATERSHED

DATE OF STORM: June 28, 1972 MONITORING STATION: Outlet

Time	Intensity of Rain (in/hr)			Discharge cfs	Total Solids (mg/l)	Sus. Solids (mg/l)	Vol. Sus. Solids (mg/l)	BOD mg/l	COD mg/l	pH	Cl	Coliform No/100ml
	Laidlaw Gage	Woodward Gage	Ridge Gage									
1607:30		0.06		104.4								
1615:00				127.7								
1622:30				152.2								
1630:00				127.7								
1637:30				104.4								
1645:00				67.7								
1652:30				58.2								
		June 29, 1972										
1722:30				165.7								
1730:00	1.2			221.7								
1737:30	1.5			313.8								
1745:00				528.0								
1752:30			0.6	397.9								
1800:00			0.6	330.2								
1807:30			0.6	280.0								
1815:00			0.6	221.7								
1822:30				165.7								
1830:00				58.2								